

# THE CALIFORNIA VETERINARIAN



CONVENTION HEADQUARTERS  
Monterey

CONVENTION HEADQUARTERS

JUNE 20, 21, 22, 1955



MAY-JUNE, 1955

PUBLISHED BY CALIFORNIA STATE VETERINARY MEDICAL ASSOCIATION



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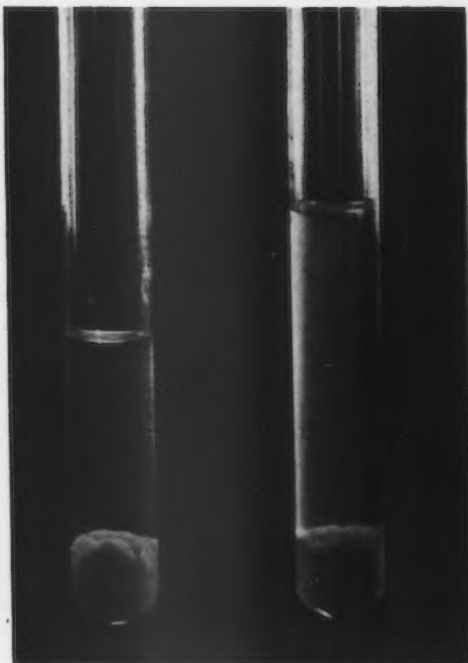
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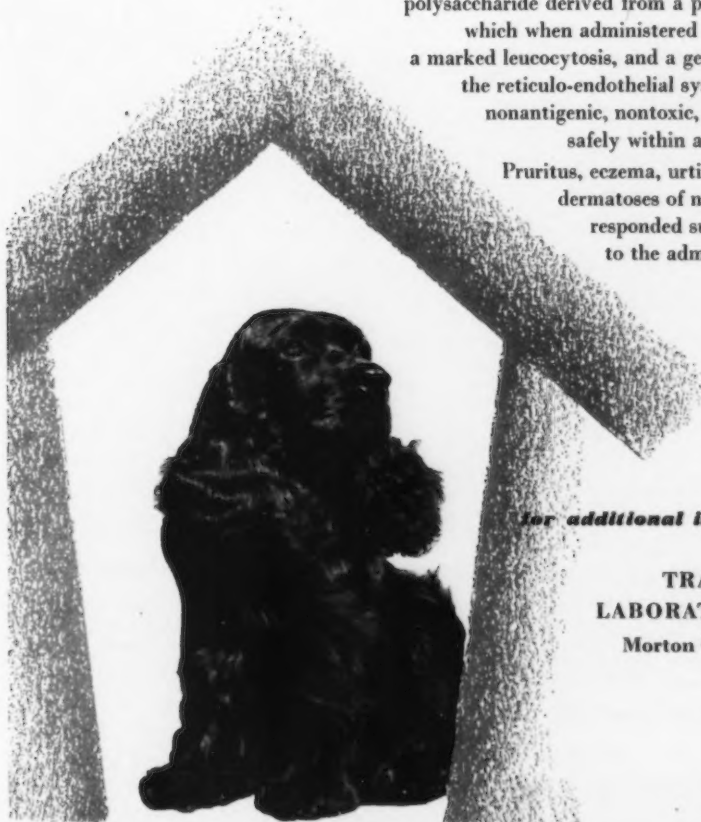


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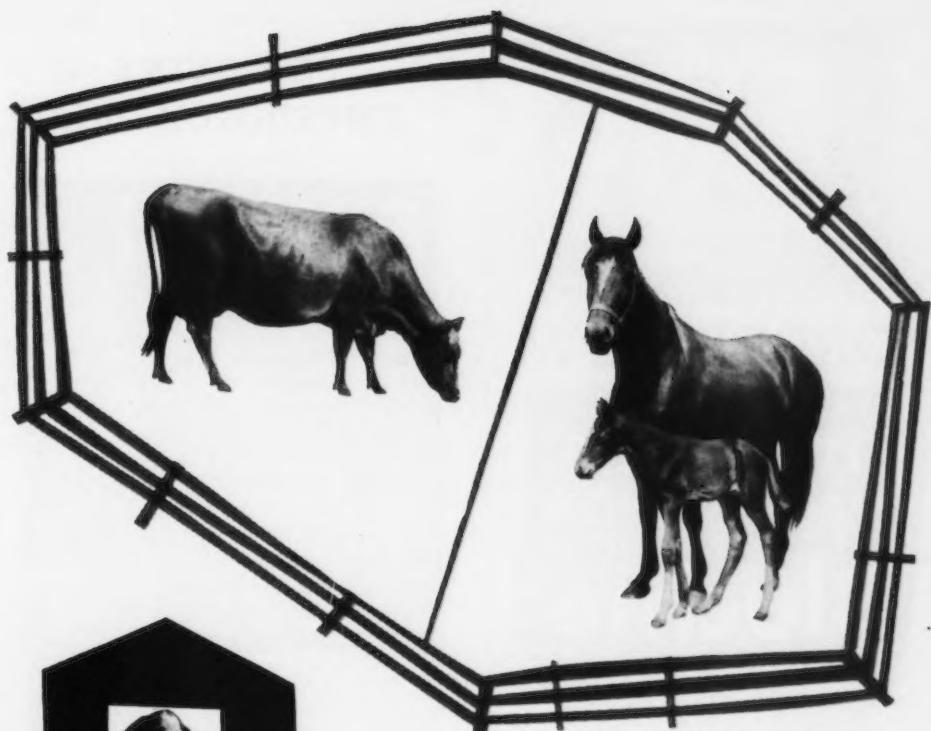
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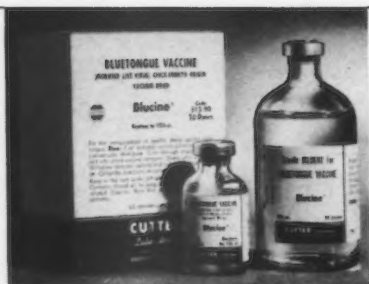
\*Rachman, M., and Frucht, T. R.: Vet. Med. 49:341, 1954.



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# THE CALIFORNIA VETERINARIAN

MAY-JUNE, 1955

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## Number 5

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## EDITORIAL

Another year has passed in the history of the CSVMA. It has been another year of progress due entirely to generous work performed by you, the members of our association. I want to extend my most grateful thanks to the officers who served with me this past year, to the committee chairmen who gave so untiringly and generously of their time and work, to the committee members for their labors, and to all the members of the association for your wonderful cooperation and assistance. An organization composed of people like you cannot regress—it can go only forward toward creating a better veterinary profession in our state.

The accomplishments of this year you already know: the legislative affairs, the streamlining of our constitution and by-laws, the studies started in the field of ethics, the establishment of a framework for a dynamic public relations policy, and the studies in reorganization of our state association with the constituent associations.

Here are some of the projects which must be continued and energetically pushed:

(1) A dynamic public relations group must be created now that we have the framework on which to build.

(2) Key committees should not expire at the end of each year; rather, some members should be reappointed and current work continued. I have particular reference to the legislative, ethics, and ways and means committees.

(3) Definite policies must be laid down by our association in regard to ethics and help extended to the Veterinary School in this regard in instructing the students.

(4) Closer cooperation and liaison should be maintained between our association and the Board of Examiners.

(5) Closer cooperation must be fostered between our association and the Veterinary School and we should assist the school in any way we can.

(6) Studies must be conducted in the field of medical economics aimed at producing standardization of procedures in hospitals, improvement of veterinary service to the public, exploitation of our capabilities as professional men and women, and in general guiding the rapid progress of our profession.

(7) Reorganization of our state association structure integrated with local and regional associations must be accomplished.

*These are projects which are vital and need our immediate attention.*

It has been a great pleasure and honor to have served as your association president this past year. Thank you for the generous and willing assistance you have given me and for the great interest and understanding you have shown in the affairs of your association.

W. J. ZONTINE, D.V.M.



# MONTEREY, JUNE 20, 21, 22

***It looks like the biggest Annual Convention ever!***

Already headquarters hotel, the Casa Munras, is sold out. But—there are scores of other accommodations, ranging from luxurious to modest motels, all close to the Monterey County Fair Grounds where General Sessions, Large and Small Animal Sessions, Clinics and Exhibits will be held.

If you haven't made reservations, write immediately to Mrs. Helen Hoxie, Convention Bureau, Monterey Chamber of Commerce, P. O. Box 489, Monterey.

The Program, complete up to press time, appears in this issue. Some of the speakers are highlighted, too, and the Exhibitors are listed with their displays.

Our hosts, the Monterey Committee, has overlooked nothing to make your stay a memorable one.

## **IMPORTANT!**

You are urged to attend the Business Meeting Monday afternoon, June 20. It will be the most important the Association has had in many years. Under discussion will be a Pet Health Plan, wherein prepaid pet health service is to be offered to pet owners in the Los Angeles area. The promoters intend to operate a large central hospital, with numerous outlying clinics. It is understood that land for this central hospital has already been purchased.

The outlying clinics are to be obtained by



*Photo—Californians Inc.*  
Quaint Carmel Mission, founded in 1770, is one of the most historic shrines in California. It is only a short drive from Convention Headquarters.

leasing established hospitals in the area. Some veterinarians have already been approached. This may have a very serious influence on the future practice of veterinary medicine and the welfare of veterinary practitioners.

It is vitally important that you be on hand to discuss and vote on this issue!

Let's make it a **MUST** to attend the Business Meeting, Monday, June 20!

# Convention Speakers

## GAIL E. HAWLEY

Dr. Hawley graduated from Michigan State College in 1950 and practiced in Glendive, Montana, as a partner with G. C. Halver. For the past three years he has been associated with the Agricultural Development and Research Department of the Chas. Pfizer Company, engaged about 95 per cent in clinical field testing and the evaluation of new drugs and antibiotics in veterinary medicine. He is project leader for large animal research and has spent a large portion of his time in the feedlot areas of the Rocky Mountain States. Dr. Hawley's hobbies are photography and fine guns.



★ ★ ★

## LEWIS E. HARRIS

Mr. Lewis E. Harris is director of pharmaceutical research, Norden Laboratories, Lincoln, Nebr. He is also director of Harris Laboratories, Lincoln, Nebr., special lecturer at the University of Nebraska, and official chemist for the Nebraska State Racing Commission. Mr. Harris received the bachelor and master of science degrees from the University of Nebraska and since has continued post-graduate study.



Research conducted by Mr. Harris has included the stabilization of calcium gluconate solutions for veterinary use and the use of sulfonamides for parenteral application. A skilled speaker, he is frequently called upon to present papers at veterinary association meetings and student seminars. He is past president of the Nebraska Chemical Society, International Association of Official Racing Chemists, and Nebraska Public Health Association with memberships in numerous other professional associations.

## PIERRE LIEUX

Dr. Pierre Lieux graduated from l'Ecole Vétérinaire d'Alfort, France, in 1950, and received his degree in veterinary medicine from the University of Paris the following year. In the spring of 1951, in Newmarket, England, he worked with the staff of the Equine Research Station of the Animal Health Trust, and familiarized himself with the different problems connected with parasitism, sterility and diseases of foals in horses. From September, 1951, to August, 1952, Dr. Lieux worked at the Animal Pathology Department of the Agricultural Experimental Station of Kentucky, where he had been sent by the French Government on a research fellowship. In August, 1953, he took the post of resident veterinarian at Sneed Stock Farm, Hemet, where he is located at present.



★ ★ ★

## HARLAN JENSEN

Dr. Jensen was born and raised on an Iowa farm, and attended Iowa State College, from which he graduated in 1941. For nearly five years he conducted a mixed practice in Galesburg, Illinois. His small animal training was obtained while working for about a year with



Dr. Morris in New Jersey. After leaving his New Jersey post, Dr. Jensen moved to Cleveland, where he purchased a small animal practice. He has been located there ever since, and operates the Jensen Green Road Animal Hospital, University Heights, Ohio. Dr. Jensen is a member of the American Animal Hospital Association.

## B. W. KINGREY



Dr. Kingrey was born and raised in Worthington, Minnesota, and received his D.V.M. from Iowa State College in 1944. Following graduation he entered general practice in northern Illinois, where he remained for nine years. He then taught large animal medicine at

Iowa State College, and in 1954 was granted an M.S. degree following the study of the Syndrome of Traumatic Gastritis. Effective July 1, 1955, Dr. Kingrey becomes head of the Department of Medicine and Surgery at Iowa State. He has contributed articles for publication in scientific journals, and has membership in Phi Kappa Phi, Phi Zeta, Gamma Sigma Delta and Delta Psi Omega.

## R. H. HOLLIS



Dr. Hollis is head of the Division of Veterinary Medicine at Abbott Laboratories and has been on the staff since 1950. Prior to that time he practiced veterinary medicine and was in partnership with two other veterinarians in the state of Delaware. He received his degree, Veterinary

Medical Doctor, from the University of Pennsylvania in 1948, and his pre-veterinary training was likewise received at the University of Pennsylvania.

## JOHN PERIGO FOX

Professor of Epidemiology, Tulane University, New Orleans, will speak on "Observation on the Immunization of Man Against Rabies with Living Modified Chick-Embryo Adapted Fluery Virus."

## CSVMA Women's Auxiliary June Meeting

How long has it been since you have enjoyed a vacation by the Sea? The annual convention of the California State Veterinary Medical Association being held in Monterey, June 20 through 22, affords such a vacation. As President of the Women's Auxiliary to the CSVMA, I extend a cordial invitation to every member and all eligible women to attend.



VIRGINIA EVILLE

The co-chairmen, Mrs. E. J. Mahler and Mrs. Don Caswell, with assistance from many of the veterinarians' wives of the surrounding areas, have planned a splendid social program for your pleasure. Auxiliary headquarters will be at the Casa Munras Hotel.

### Sunday, June 19th

Registration starts at 1 p. m.

Tea—2 to 4.

Cocktail party hosted by Monterey Bay Area VMA—5:30 to 7 p. m.

### Monday, June 20th

Registration—9 a. m. to 1 p. m.

Bus trip and shopping in Carmel—12 noon to 3:45 p. m.

MAY-JUNE, 1955

### Tuesday, June 21st

10 a. m. —Tour, 17 Mile Drive, luncheon and business meeting at Del Monte lodge.

### Tuesday Evening

Join the gentlemen at their President's Dinner Dance, Monterey Peninsula Country Club.

### Wednesday, June 22nd

Open

The Del Monte Lodge course will be available to anyone desiring to play golf.

The program has been arranged to allow time for sight-seeing and sports. No doubt, you will agree, the committee's program sounds both enjoyable and relaxing.

A special invitation in extended to the wives of the members of the graduating class of the School of Veterinary Medicine at Davis.

We would be most happy to have all eligible women join the Auxiliary to the CSVMA. As you know, any organization can be only as strong as its membership.

The other members of the Executive Committee: Mrs. C. E. Irvin, first Vice-President; Mrs. J. C. O'Brien, second Vice-President; Mrs. B. F. Pike, Secretary-Treasurer; and Mrs. C. D. Stafford, Immediate Past-President, join me in wishing you a very pleasant visit to Monterey and the June convention.

VIRGINIA EVILLE (Mrs. Thomas B.),

President

# THE 1955 P

## 67th Annual Convention—California State Veterinary Medical Association and Fair

### CONFERENCE SPEAKERS

Donald Barr, D.V.M., Practitioner, Fresno.  
 F. M. Brennan, D.V.M., Practitioner, Chino.  
 Hugh S. Cameron, D.V.M., Ph.D., School of Veterinary Medicine, University of California, Davis.  
 Don Caswell, D.V.M., Practitioner, Salinas.  
 G. B. Collins, D.V.M., Practitioner, Paso Robles.  
 John E. Craig, V.M.D., Practitioner, Seaside.  
 James Ebaugh, D.V.M., Practitioner, Gilroy.  
 George W. Eberhart, D.V.M., Practitioner, El Cerrito.  
 John Perigo Fox, M.D., Professor of Epidemiology, Tulane University, New Orleans, La.  
 Ted J. Hage, D.V.M., M.Sc., Radiologist, School of Veterinary Medicine, University of California, Davis.  
 Lewis E. Harris, M.Sc., F.A.I.C., Director of Pharmaceutical Research, Norden Laboratories, Lincoln, Nebraska.  
 Gail E. Hawley, D.V.M., Agricultural Research and Development Dept., Chas. Pfizer & Co., Terre Haute, Indiana.  
 Robert H. Hollis, V.M.D., Manager, Veterinary Division, Abbott Laboratories, North Chicago, Illinois.  
 Harlan Jensen, D.V.M., Practitioner, University Heights, Ohio.  
 B. W. Kingrey, D.V.M., M.S., Assistant Professor, Veterinary Medicine and Surgery, Iowa State College, Ames, Iowa.  
 Bernard Koch, D.V.M., Practitioner, Santa Cruz.  
 Allen B. Lemon, A.B., Chief, Bureau of Chemistry, State Dept. of Agriculture, Sacramento.  
 Pierre Lieux, D.V.M., Practitioner, Sneed Stock Farm, Hemet.  
 W. Steele Livingston, B.S., D.V.M., Practitioner, North Hollywood.  
 Edward Mahler, D.V.M., Practitioner, Salinas.  
 George E. McClintock, D.V.M., Practitioner, Los Angeles.  
 Willard D. Ommert, D.V.M., Practitioner, Hollydale.  
 John E. Peters, D.V.M., Practitioner, Arcadia.  
 William W. Putney, D.V.M., Practitioner, Van Nuys.  
 Derek Rayne, All Breeds Judge, American Kennel Club.  
 Harry E. Reddick, Jr., Dos Palos.  
 Seymour R. Roberts, D.V.M., Practitioner, Richmond.  
 Ira H. Shannon, D.M.D., Member of the Faculty, University of California Medical Center, Division of Dental Medicine, San Francisco.  
 Reginald Stocking, D.V.M., Practitioner, Los Angeles.  
 Richard L. Stowe, D.V.M., Practitioner, San Francisco.  
 Ralph Weston, D.V.M., Practitioner, Carmel.

### OPEN HOUSE — COCKTAILS

Sunday, June 19—5:30-7:00 P.M.

The Monterey Bay Area Veterinary Medical Association cordially extends an invitation to members of the CSVMA to attend an Open House-Cocktail Bar at the home of Dr. Ralph Weston, located on Ocean Avenue, near the Carmel High School, in Carmel.

### All Sessions, Clinical Demonstrations,

### Monterey County

MONDAY, JUNE 20, 1955

#### GENERAL SESSION

##### Morning

9:00-12:00—Registration and Exhibits.

##### Afternoon

Chairman, RALPH WESTON

- 1:30—Invocation—Dr. Fillmore Gray, Carmel.
- 1:35—Welcome—Hon. Dan Searle, Mayor of Monterey, and Walter Hahn, City Manager.
- 1:40—Response—William J. Zontine.
- 1:45—"The Effect of a Placental Autolysate on Tumor Regression," W. Steele Livingston.
- 2:45—"Veterinary Problems and Responsibilities of the Track Veterinarian," Lewis E. Harris.
- 3:25—"Small Animal Surgery and Procedures," Harlan Jensen.
- 4:15—"Observation on the Immunization of Man Against Rabies with Living Modified Chick-Embryo Adapted Fluery Virus," John Perigo Fox.
- 4:45—Questions.
- 5:00—Annual Business Meeting of the CSVMA.

TUESDAY, JUNE 21, 1955

#### LARGE ANIMAL SESSION

##### Morning

Chairman, GILBERT JACKSON

- 9:00—Film, "The Rumen Story," Ralston Purina Company.
- 9:30—"Hazards of Pesticides to Livestock," Allen B. Lemon.
- 10:00—"Lamenesses in Cattle," B. W. Kingrey.
- 10:45—"The Diagnosis of Latent Brucellosis," H. S. Cameron.
- 11:15—"Surgical Approach to Eye Surgery in Cattle and Vaginal Rectal Repairs in Mares," F. M. Brennan.

#### QUESTION AND ANSWER

##### LUNCHEON

12:00-2:00

Spindrift Restaurant

Moderator, W. W. PUTNEY

##### Afternoon

Chairman, RICHARD TANGEMAN

- 2:00—"Training of the Thoroughbred Horse and Lamenesses Encountered," John E. Peters.
- 2:30—"The Syndrome of Traumatic Gastritis," B. W. Kingrey.

### BARBECUE

Wednesday, June 22, 1955—12 Noon

Juicy steaks, beans, and all the trimmings . . . in the Hunt Club, on the Fair Grounds, adjacent to Main Pavilion where sessions are held. After the barbecue, the Clinical Demonstrations will be continued.

# PROGRAM

Association—Casa Munras Hotel, Monterey, June 20, 21, 22  
and Exhibits will be held at the  
Fair Grounds

- 3:30—"The Relationships Between the Appearances of the Cervix and the Sexual Cycle in Mares," Pierre Lieux.  
4:15—"Experiences in Treating Rhino Tracheitis and Mucosal Disease of Feedlot Cattle," Gail E. Hawley.  
4:45—"Tail Setting," Willard E. Ommert.  
5:15—"New Formula in Worming Horses and Cattle," Harry E. Reddick, Jr.

## TUESDAY, JUNE 21, 1955 SMALL ANIMAL SESSION

### Morning

Chairman, T. J. HAGE

- 9:00—"Canine Distemper Immunization," Richard L. Stowe.  
9:30—"Methods of Testing Vision," Seymour R. Roberts.  
10:00—"Practical Bacteriology for the Practitioner," John E. Craige.  
10:20—"Physiological Considerations in the Treatment of the Distemper-Hepatitis Complex," Donald Barr.  
10:55—"Parenteral Fluid Therapy in Veterinary Medicine," Robert H. Hollis.  
11:25—"Epilepsy and Related Conditions in the Dog," George W. Eberhart.

## QUESTION AND ANSWER LUNCHEON

12:00-2:00

Spindrift Restaurant

Moderator, W. W. PUTNEY

### Afternoon

Chairman, RICHARD MACY

- 2:00—"Roentgenography of the Canine Chest," Ted J. Hage.  
2:30—"Diseases and Surgery of the Eye," Harlan Jensen.

## ENTERTAINMENT

### Monday, June 20, 1955

**Men's Golf Tournament**—Monterey Peninsula Country Club Golf Course—Tee off between 8-9 A.M. Dr. John Craige, chairman. Winners will receive trophies. For full particulars, write Dr. Craige, 1000 Scholer St., Seaside.

### Monday, Tuesday or Wednesday

**Deep Sea Fishing**—Reservations should be made at least a week in advance. Boats leave Monterey at 6:30 A.M., or earlier on charter, and return about 2 P.M. Rates \$9 per person, including all gear. \$60 per boat on charter (8 persons). For particulars, write to Dr. Gordon Hambrook, Fremont St., Seaside, or to YELLOW BOATS, Municipal Wharf No. 2, Monterey.

**Trapshooting**—Arrangements can be made on 10 days' notice. Write to Dr. Ralph Weston, P. O. Box 2413, Carmel.

**Conducted Tours** through the 17-Mile Drive have been made available through the Chamber of Commerce. No advance notice needed.

**Sight-Seeing Boats** are available for trips about the Bay at all times.

- 3:15—"New Information on Antibiotic Therapy in Small Animals," Robert H. Hollis.  
3:45—"Ultra Sonic in Veterinary Medicine," George E. McClintock.  
4:30—"Some Dental Problems Relating to Veterinary Medicine," Ira L. Shannon.  
5:15—"A Combination of Antidiarrheal Agents Using Vetrobon as a Vehicle," John E. Craige; collaborator, John W. Oliver, D.V.M.  
5:30—Questions.

## WEDNESDAY, JUNE 22, 1955

### CLINICAL DEMONSTRATIONS

#### Morning, 9 to 12

#### Afternoon, 2 to 5

- "Fundamental Principles of Bird Practice," Don Caswell.  
"Demonstrations of Practical Laboratory Procedures," John E. Craige.  
"Demonstrations of Restraint and Handling of Small Animals," Ralph Weston.  
"Restraint Demonstrations (including anesthesia) of the Chinchilla," Bernard Koch.  
"Use of the Radon Implant and the Radio Cautery in Bovine Eye Surgery and Treatment," James Ebaugh and Edward Mahler.  
"Duties and Responsibilities of the 'Veterinarian in Charge' at the Dog Shows," Derek Rayne, sponsored by American Kennel Club. Assisted by William Hammond and Charles Smith.  
"Soft Palate Resection," Surgery, Reginald Stocking.  
"Tonsillectomy," Surgery, George W. Eberhart.  
"Use of Ultra Sonic Machine," George E. McClintock.  
"Rumenotomy," Surgery, B. W. Kingrey.  
"Passing Stomach Tube," Donald Barr.  
"Testing Vision of Dog," Seymour R. Roberts.  
Surgery Demonstration, Harlan Jensen.

## PRESIDENT'S BANQUET AND DINNER DANCE

Tuesday, June 21, 1955

The Monterey Peninsula Country Club

Cocktails, 7; Dinner, 8; Dancing, 9

DR. JOHN E. CRAIGE, Chairman

DR. JOSEPH HARRISON, Toastmaster

## LOCAL ARRANGEMENT COMMITTEE

RALPH WESTON  
V. TODOROVIC  
L. J. CAMPBELL  
GORDON HAMBROOK  
E. M. PLOCHER  
F. E. REDDERT  
W. M. THORNING  
DON CASWELL  
JAMES EBAUGH  
JOHN CRAIGE  
JOSEPH HARRISON  
CHARLES SMITH  
JOHN BOETGER

W. J. C. RAMSEY  
C. S. BROOKS  
GEORGE FREIERMUTH  
LINTON R. BRYNER  
FRANK WAYLAND  
HAROLD PARKER  
W. M. HAMMOND  
EDWARD MAHLER  
BERNARD KOCH  
E. A. JOHNSON  
C. B. OUTHIER  
EARL HAFEN  
L. E. CHANEY



## Exhibitors at Monterey Convention

The following firms will exhibit at the 67th annual convention of the CSVMA in Monterey. On display will be new and modern equipment, new products, medicaments and recent additions to pharmaceutical lines that open new avenues in the field of Veterinary Medicine. We urge you to visit the representatives of these reliable firms. They supply many of your professional needs. You will find them friendly and helpful. Not only do these Exhibitors add to the success of our Conventions, but many of them aid materially by contributing editorially to "The California Veterinarian," and by supporting the publication through their advertising.

### ARMOUR VETERINARY LABORATORIES

The Armour exhibit will feature ACB 12, useful in control of canine neuroencephalomyelopathy; Adrenocillin, ACTH in combination with penicillin for use in secondary ketosis; Adrenomone, original veterinary ACTH in gelatin (patented); Dynamone, ACTH in glucose for stimulating animals under stress; P.L.H. (Pituitary Luteinizing Hormone) and F.S.H. (Follicle Stimulating Hormone), for breeding disorders; P.O.P. (Purified Oxytocic Principle), for mastitis, retained placenta, agalactia and a number of other indications in large and small animals; and Tryptar-Vet, for hormonal debridement of necrotic tissue.

### BANES LABORATORY

The specialties which Banes Laboratory will exhibit include professional liquid soaps, detergents, medications for the skin, insecticides, germicides, fungicides, parasiticides and disinfectants.

### H. C. BURNS COMPANY, INC.

The H. C. Burns Company, Inc., will feature (1) *Buco Specialties*: Bucotone, Beuthanasia, Bucodine, Rumade, Vitone Plus, Vita Drops, Bu Mycin V, Phenobon, Enterobon, Bu Pekcin, Strepto-Sul, Pen-Strep U. I. Syringes, 6cc and 30cc, Cal Glu Phos, Neotone Purga Bols, Aerosol Bombs, Zirco Derm, Chlor Oint, Tyro-Sul, Tri Sulfa Tan, Hipo Bee w B12, Biviples, Hep Vite, Aqua Vite, Fungoint, Demarsdex, Demotox, Bu Klor and (2) *Exclusive Lines*: Carson, Kore, Hex-Em, Fleas Off, Ortho, Air Clean, etc.

### CALIFORNIA MEDICAL SUPPLY COMPANY

Courteous representatives of this Los Angeles supply company will explain the following products on display: KAPRYLEX, for Diarrhea, Perianal Itching, and other symptoms of Intestinal Moniliasis associated with oral antibiotic therapy. STRASCOGESIC, for quick, high-level analgesia in routine pain problems. CAPRALAN, combining fungicidal and bactericidal activity for wound healing.

### CALIFORNIA VETERINARY SUPPLY CO.

The following products manufactured by Norden Laboratories will be exhibited: Mitox, effective therapy of otitis caused by mites, bacteria, fungi. Fleavol Shampoo, kills fleas and lice as it cleans. Canolene, Improved, contains lindane and pure rotenone, outstandingly effective against demodectic, sarcoptic and psoroptic mange in dogs, and ear mites in all animals. Norcalciphos, Improved, is an entirely new parenteral for use in milk fever and multiple deficiencies, combines calcium, phosphorous, mag-

nesium and dextrose. Norcalciphos, Improved, provides dramatic results even in herds with histories of relapse. Invertose, combines the advantages of both fructose and dextrose. A new approach to ketosis therapy.

### CALO DOG FOOD COMPANY, INC.

Champion Calo, handsome Bouvier des Flanders will be on hand to greet members of the CSVMA at the Calo Booth. Calo Salesman, Don McNeilly, will man the Calo display, explaining the features of his company's 52-ounce pack, which is made exclusively for veterinarians. The big black Bouvier, owned by Don, is a familiar figure at pet shows, charity drives, youth centers, schools and churches, where he gives the children rides in his dog-cart—an exact replica of those used for farm work in his native Flanders.

### CENTRAL CITY CHEMICAL CONSOLIDATED

Sharpe & Co., of Los Angeles, and Central City Chemical Consolidated, will display products of Haver-Glover Laboratories; Ashe Lockhart, Inc., and Corn States Laboratories, Inc.

### CUTTER LABORATORIES

This Berkeley manufacturer of biologicals and pharmaceuticals since 1897 will exhibit a general display of their products.

### DESITIN CHEMICAL COMPANY

Desitin Ointment is the pioneer in external cod liver oil therapy. Indications: diaper rash, slow healing wounds, burns of all degrees, lacerations, hemorrhoids and fissures. Desitin Powder: a unique, dainty medicinal powder saturated with cod liver oil. Desitin Hemorrhoidal Suppositories with Cod Liver Oil: coats ano-rectal area with soothing, lubricating cod liver oil, gives prompt relief of pain, allays itching. Desitin Lotion: the original cod liver oil lotion, soothing, protective, mildly astringent and healing, in non-specific dermatitis, pruritis, poison ivy, etc.

### DOHO CHEMICAL CORPORATION

The Doho Chemical Corporation and its subsidiary, Mallon Chemical Corporation, are pleased to exhibit their preparations: Auralgan, for relief of pain and itching in Otorrhea, Canker and Ear Mites; Otosmosan, for suppurating ears, fungus condition and all other forms of aural dermatomycosis; Rhinalgan, the pleasant-tasting nasal decongestant which shrinks the mucous membrane without any systemic or circulatory effect, particularly in distemper; and New Rectalgan, the liquid topical anesthesia for immediate symptomatic relief of pain and itching, in hemor-



rhoids and for many other uses pre and post-operatively. All these medications are routinely used by the medical profession on infants as well as their geriatric patients.

#### **FORT DODGE LABORATORIES, INC.**

Fort Dodge will exhibit M-L-V, the original modified live virus hog cholera vaccine; Distohep, a combined canine distemper and infectious hepatitis vaccine (canine origin); Rabies Vaccine, a modified live virus vaccin (chick embryo origin); Cloviben, a new antibiotic-vitamin feed supplement; Soxipent, the modern preparation for treatment and control of bovine mastitis; and various other biologicals and pharmaceuticals. We will also display our new product, Nolvasan, a new broad-spectrum bactericidal agent. This product will be available in cap-tabs for preventing and treating metritis, and ointment for treating wounds and abrasions.

#### **FROMM LABORATORIES, INC.**

Fromm Laboratories, pioneers in the research of small animal diseases, will display their line of quality small animal biologicals. In addition to their present line they will also announce and introduce the new product, Trivalent Serum.

#### **JENSEN-SALSBERY LABORATORIES, INC.**

Jen-Sal will feature Minibabs, new tablet formula especially adapted for puppies, toy breeds and kittens. Caniheptin Capsules, used in metabolic disorders, infectious diseases and poisonings associated with liver damage. Anthol Capsules, used in eliminating hook worms, whip worms, round worms and tape worms. For the large animal practitioner they will display their new formula for treatment of mastitis, known as Insti-lysin, which contains papain plus antibiotic sulfonamide activity in a stable, ready-to-use oil base. New D.C.M. Special Concentration, which gives 50% higher blood calcium levels and keeps them higher longer. Jen-Sal Parenterin (an injectable laxative) with milder but sustained action, lower toxicity, greater effectiveness and a lower price. Several of the newer veterinary instruments will also be on display, including stainless steel pails and pans.

#### **KENDALL FOODS, INC.**

This California manufacturer, selling Walter Kendall Dog Food on the Pacific Coast for 20 years, will display samples including biscuits, quick mix kibbled, and regular kibbled. A feature of their product is the fact that they are able to offer five distinctive flavors, and these flavors, in turn, are identified by five separate colors, and in the case of the biscuits, by five shapes.

#### **KIRSCHNER MANUFACTURING CO.**

This Vashon, Washington, firm will have on display one five-cage Glass Plastic battery, and also, the usual display of fracture equipment. In addition they will feature one of their oxygen-therapy doors.

#### **LEDERLE LABORATORIES**

You are cordially invited to visit our exhibit where you will find our representative prepared to give you the latest information on Lederle products.

#### **S. E. MASSENGILL COMPANY**

Massengill representatives will be on hand to provide you with complete information on newer therapies in large and small animal fields. Some interesting new evidence on Daribiotic for treating mastitis will be presented. Also, some significant information about the new general anesthetic, Myothesia. Your visit to the Massengill exhibit will be appreciated.

#### **NATIONAL CASUALTY COMPANY**

J. L. Toole, General Agent, Power & Dalziel, Brokers, providing information on accident, sickness and hospitalization policies. Will answer all questions pertaining to group insurance policies written especially for CSVMA.

#### **PARKE, DAVIS & COMPANY**

Parke, Davis & Company will feature two of their specialties: Chloromycetin<sup>®</sup>, a broad-spectrum antibiotic; and Surital<sup>®</sup> Sodium, an ultra-short-acting anesthetic. Included will be Chloromycetin in its many forms (oral, parenteral, ophthalmic) and the various sizes of Surital.

#### **PFIZER LABORATORIES**

Pfizer Laboratories booths will feature and demonstrate the new highly dispersible Terramycin Animal Formula for Mastitis, Eye Pellets, and the new Terramycin Soluble Powder for use in most domestic animals, including adult ruminants. The new ethical broad-spectrum antibiotic Tetracycline-Vet in various dosage forms will also be displayed.

#### **PITMAN-MOORE COMPANY**

Pitman-Moore Company will display a number of important pharmaceutical and biological specialties, including Vermiplex, Hi-Amine, Virogen D-H and Swivax. All veterinarians are cordially invited to make the Pitman-Moore booth their headquarters at the Exhibit Pavilion. Mr. Paul Fledderjohn will be in charge of the exhibit.

#### **QUAKER OATS COMPANY**

The Quaker Oats Company will display a large easel showing the most complete World Dog Map, in color, ever created. Each day five of these handsome and valuable maps will be awarded to CSVMA members. Also on display will be the company's full line of Ken-L-Products. Quaker Oats representative Frank Boustead will be on hand to greet his many friends.

#### **SHARP & DOHME**

Products featured by Sharp & Dohme, Division of Merck & Co., Inc., will be "Cortone" (Veterinary) and "Hydrocortone" (Hydrocortisone and Cortisone, Merck), "Cyclaine" (Veterinary) (local anesthetic), antibiotics, sulfonamides and "Dornavac" (Veterinary) Pancreatic Dornase. Mr. F. E. Hatfield will have charge of the exhibit.

#### **E. C. SMITH COMPANY—D. W. MORRIS**

Providing information on liability insurance policy for California veterinarians. Will answer all questions pertaining to these two group policies written especially for CSVMA.

### **E. R. SQUIBB & SONS**

E. R. Squibb & Sons will exhibit Steclin and other veterinary products and distribute brochures. As in former years your Squibb representative again cordially invites you to visit the Squibb booth.

### **STANDARD SURGICAL COMPANY**

Standard Surgical Company, Long Beach, will exhibit their line of equipment, including Assistant Instruments, Syringes, Hypo Needles, Suture Needles, Thermometers, Oscopes, Hyfricators, Sterilizers, Autoclaves, Mayo Stand and Foot Stool.

### **STANTON SCIENTIFIC EQUIPMENT CO.**

Interesting demonstrations of mechanical resuscitation and controlled respiration will be presented by representatives of Stanton Scientific Equipment Company. A plastic breathing dog will be of interest to the Doctors visiting this exhibit devoted to the art of mechanical respiration.

### **UPJOHN COMPANY**

The Upjohn Company will exhibit certain special veterinary products and a group of human products having veterinary application, including Bio-F-Cortef, F-Cortef, Neo-Cortef, ECP, Petonic, Panmycin, Mycipo, Cortef family, injectable Veterinary-Cortisone Acetate, and Ferritrisin Tablets.

### **VICTORY PACKING COMPANY**

Victory Packing Co., general office and packing plant located at Los Angeles, will introduce their new line of "Clinical Formula" sold only to registered Veterinarians. A new advancement in nutrition! Dr. H. I. Ott will be at their booth to explain the application of nutrition to the nourishment of sick animals. They will also exhibit their full line of U. S. Inspected Pet Foods which include Kal Kan Horse Meat with Gravy, Thoro-Fed 100% Horse Meat, Thoro-Fed Certified Dog Food, Thoro-Fed Dry Meal and Bits and Vic-Pak fresh packaged Horse Meat.

### **WESTERN SURGICAL SUPPLY CO.**

Latest medical and surgical supplies and equipment. Newest ultra-sonic equipment. Newest Swedish examination lamps. Diagnostic Woods light. We extend cordial invitation to you to visit our exhibit and consult our professional service representative regarding the latest equipment and supplies.

### **WINTHROP-STEARNES, INC.**

Winthrop-Stearnes, Inc., will display some of their original pharmaceuticals for veterinary use, including Nemural, Fuadin, Istizin, Roccal, Demerol, pHisoHex as well as their two new biologics, Canine Distemper Vaccine Chick Embryo and Hepatitis Vaccine. A complete line of Eaton veterinary products will also be featured including Furacin Penicillin Gel, Furacin Dressing, Furacin Solution Veterinary, Furaspur, and Furoxone.

## **Calo Bouvier to Greet Convention Delegates**



Two young fans stop during recent fund-raising benefit in Northern California to make friends with "Champion Calo," the prize-winning Bouvier des Flandres who'll be on hand at the Calo Display booth at the CSVMA Convention in Monterey.

The great black Bouvier gives children free rides in his dog-cart, an exact replica of those used for farm work in his native Flanders.

### **U.C. Student Chapter AVMA Activities**

The University of California Student Chapter of the AVMA, Davis, started the spring with very enthusiastic planning by the Bob Wichmann-headed program committee.

The bimonthly meetings are pointed toward bringing out some of the interesting facets of the profession which might not be covered in the regular curricula.

On the educational side were appearances of guest speakers Dr. Gail E. Hawley of Pfizer Laboratories, and Dr. George B. Humphrey of the California State Department of Health, Bureau of Acute Communicable Diseases. The programs have been filled out with movie nights.

Not forgetting the equally important aspect of social activities the chapter relaxed at its Spring Formal Dance on April 2nd.

Included in the plans of the future are participation in the widely known annual Cal Aggie Picnic Day, the Junior-Senior pig bake, and the Spring steak bake. This latter is a function which attracts many faculty members and some of the alumni.





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TETRACYCLINE HYDROCHLORIDE VETERINARY

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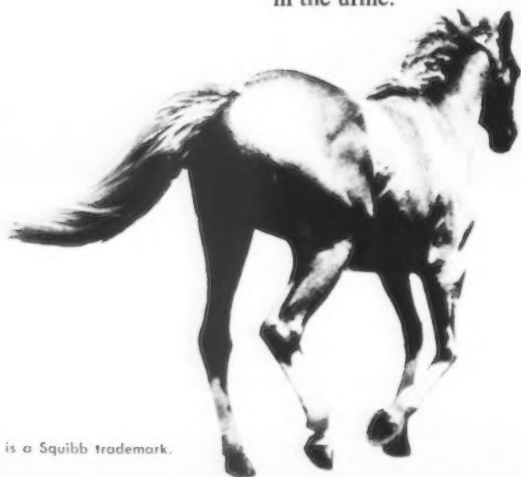
SQUIBB

STECLIN (Tetracycline Hydrochloride), Squibb's new wide spectrum antibiotic for domestic animals, is now available to veterinarians in *two* forms—in vials for injections, and in capsules for oral administration.

In either form, the unusually low incidence of toxic side effects observed during therapy with Steclin will make this an important drug of wide application. *Clinical tests with humans have indicated that with Steclin—undesirable reactions were absent in 93% of the cases treated.\**

Steclin is promptly absorbed into the blood stream, resulting in concentrations highly effective in the treatment of infections caused by tetracycline-susceptible organisms, including gram-positive and gram-negative bacteria, spirochetes, rickettsias, and certain viruses. The antibiotic is rapidly diffused into various body fluids including the cerebrospinal, peritoneal and pleural, and it produces high levels in the urine.

\*Finland, M. et al.: J.A.M.A., 154:561, 1954



"STECLIN" is a Squibb trademark.

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Supply House. For further information, write:  
SQUIBB, Veterinary Department,  
745 Fifth Avenue, New York 22, N. Y.





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# in 2 easy-to-use forms...vials

*Steclin is indicated in the treatment of these conditions when due to tetracycline-susceptible organisms:* abscesses; bacterial infections associated with canine distemper; bronchitis; calf scours; diphtheria; enteritis; equine influenza; erysipelas; feline enteritis; foot rot; hemorrhagic septicemia; infectious coryza; influenza; lamb dysentery; leptospirosis in dogs; metritis; nephritis; otitis media; parotiditis; peritonitis; pharyngitis; pneumonia; pyelonephritis; septic mastitis; staphylococcal and streptococcal infections in the foal; tonsillitis; ulcerations; upper respiratory complications; urinary tract infections.



Steclin Hydrochloride Veterinary for parenteral administration is supplied in vials of 100 mg., 1.0 gm. and 2.5 gm. crystalline tetracycline hydrochloride with ascorbic acid as a buffer, and procaine hydrochloride and magnesium chloride.

Solutions of Steclin Veterinary for parenteral use may be prepared with Water for Injection U.S.P., Dextrose Solution U.S.P. or Sterile Isotonic Sodium Chloride Solution U.S.P. Steclin for parenteral use should be given by deep intramuscular injection or by intraperitoneal administration.

**RECOMMENDED DAILY DOSAGE:** For small animals, 5 mg. per pound of body weight, administered in divided doses every 6 to 12 hours; for larger animals, 1 to 2 mg. per pound of body weight, administered once per day.

# and capsules



Capsules of Steclin Hydrochloride Veterinary for oral administration are supplied in bottles of 100, each capsule containing 250 mg. crystalline tetracycline hydrochloride.

**RECOMMENDED DAILY DOSAGE:** For small animals, 25 to 50 mg. per pound of body weight, administered in divided doses every 6 to 12 hours; for larger animals, 5 to 10 mg. per pound of body weight, administered once per day.

# SQUIBB

A NAME YOU CAN TRUST





# YOUR VETERINARIAN

## spends endless hours in study

*that your livestock may live...grow...produce*

This advertisement is one of a series published in leading farm publications as a service to veterinarians, and in acknowledgement of their invaluable contribution to America's livestock industry.

Keeping abreast of veterinary progress is an important part of the job of your veterinarian.

He spends many hours reading veterinary journals ... poring over latest research reports and clinical data.

He also devotes much valuable time to meetings of his veterinary associations, symposiums, and scientific gatherings—all to keep well informed of the many advances in veterinary science.

This constant study enables your veterinarian to bring you—on call—full benefit of latest techniques and drugs...to help you keep your animals healthy, vigorous and productive.

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# Diagnosis and Control of Leptospirosis\*

J. A. HOWARTH, D.V.M., Ph.D.

*School of Veterinary Medicine, University of California, Davis, California*

Titers appear seven or eight days after infection, reach a peak about ten days later, and last as long as two years. However, infected animals may die before the time when titers appear. If the serum titer is low, and later rises, that is a definitely diagnostic sign and perhaps more useful than identifying the organism, which is the only other means of diagnosis. The leptospirae are difficult to see microscopically in urine, and even more difficult in blood. Specimens must be very fresh or the organisms will have disappeared. In either acute or chronic phases, the kidney is the best tissue to send to the laboratory. Culture in laboratory animals is satisfactory, but takes more than a week and not many can afford to wait that long. Tissue may be injected into chickens and although they are not susceptible to clinical disease, their heart blood will contain leptospirae in seven days; the chicken is a good filter and so is the guinea pig. The hamster gets sick and dies of the disease which may be preferable.

In fresh tissue, with silver stain, leptospirae may be seen in the renal tubules. Kidney tissue should be fixed in 10 per cent formaldehyde, a small piece is put in at least ten times its volume of formaldehyde; this will keep two to three days.

Abortion may occur, especially in cows. The calf has usually been dead so long that the leptospirae are dead too. However, if the calf should be born alive, weak and icteric, the laboratory can often confirm the diagnosis. As yet there is no good method of identifying carriers. Agglutinins only indicate the amount of immunity.

Typical lesions are the same, in general, in all species although the clinical disease differs. Young calves two to three months old have a higher death rate than cows; some cows develop redwater and no other symptom; pregnant cows may abort. A herd of swine may show nothing, although sows occasionally abort.

The lesions are primarily in the kidney in subclinical cases. They are characteristic in swine, white spots, multiple scars, or turkey-eff identification, depending on the age of the lesion. Cows and calves that died of leptospirosis show small white, red, or gray spots on the kidney. Hemoglobinuria shows in cows and calves but not in other species. Liver lesions are not consistent or characteristic.

The organism usually leaves by way of the urine and is killed by drying. It lives long in neutral or slightly alkaline moisture, but can

last in acid dog urine for at least several hours. It will not survive freezing, but the disease is still transferred in winter, especially when animals are crowded together.

One hog barn was cleared of infection by giving all of the swine streptomycin for six days and then vaccinating them. On the other hand, one owner did nothing at all, and his percentage of infection went down to ten, and he had no trouble.

Most of the cattle in a herd may be already infected by the time the veterinarian is called in. They may already have gone through the disease and gained immunity. Vaccination is not worth while if the disease has been present long. If called at the first case of abortion, vaccinate all of the herd. If the infection is not new, test the herd and vaccinate only negative animals and replacements. Test and segregation will not eradicate or control leptospirosis.

Natural immunity probably lasts many months to years, and if the disease is present, may be life-long. Hogs carry the disease for a long time, as do dogs. Cows are carriers only for a week or two. Pomona is most common in cattle, but canicola causes occasional outbreaks. The hog rarely dies of the disease, but the cow and the dog do. The disease probably shortens the life of a dog even if he recovers. Vaccination protects only against antigenically similar strains. Feed contamination by rats is a method of spread.

## Pitman-Moore Names Dr. York Director of Virus Research

Dr. Charles J. York has been named director of Pitman-Moore Company's virus research laboratory, it was announced by Dr. C. A. Bunde, research director.

Dr. York came to the division of Allied Laboratories from Cornell University where he was awarded his Ph.D. degree in virology in 1950. While there, he held a fellowship with the American Veterinary Medical Association for one year. He also was a Research Associate at the Veterinary Virus Research Institute at Cornell.

Dr. York's work at Cornell involved isolating and characterizing the causative agents of virus diseases in domestic animals. He also discovered a new test for Leptospirosis in cattle and has developed a vaccine for the disease which Pitman-Moore Company markets as Leptospirosis Vaccine, Bio No. 642.

A native of California, Dr. York received his A.B. degree from the University of California in 1943, and his D.V.M. degree from Ohio State University in 1948.

\* Abstracted from a talk presented on January 24, 1955 previous to the regular Midwinter Conference of the CSVMA.

## Profile of Dr. Gardner W. Closson

JOSEPH M. ARBURUA, D.V.M.

Dr. Gardner W. Closson was born July 4, 1881, in Gaylord, Smith County, Kansas, of which county his father was the County Clerk.

As he matured he worked in a nursery, a grocery, for the railroad and ran soda fountains in Lincoln, Nebraska; St. Joseph, Missouri, and Kansas City. He then turned to the stockyards in St. Joseph, and while there he frequently watched Dr. John Wright, the Federal B.A.I. Inspector, going about his inspection duties. He concluded that if Dr. Wright could do such work, that he could also, and the salary (\$1,200 to \$1,800 at that time) looked very good to him. Accordingly, he decided that some day he too would become a veterinarian.

While toying with the idea he continued to work carrying papers and collecting. A visit to his uncle in Topeka brought financial aid, resulting in the purchase of two paper routes. Still interested in the veterinary profession he took a vacation and worked for Dr. Charles Steele in St. Joseph. Not forgetting his cherished hope, in 1902, with only ten dollars in his possession, he entered the Kansas City Veterinary College and was graduated in 1905.

There was a short interim between the completion of studies and graduation exercises. This period was spent practicing in Topeka, where he returned upon receipt of his diploma.

No sooner was he financially able, than he was on his way to California. Why California? As the French would say, the motive was "cherchez la femme." Since the age of 15, Gardner had been going steady with Miss Wilma E. Crevling and though she had gone West, she had remained faithful all through the years waiting for him to attain his goal. After his arrival in Southern California there was yet some waiting to be done. Even though a capital of ten dollars had sufficed with which to commence a college education, the young doctor was a bit more cautious about entering matrimony. He opened an office in the Pico Stables, Pico and Figueroa Streets, in Los Angeles but, January 13, 1906, saw him move to Santa Ana. That fall, October 6th to be exact, he and Miss Crevling were married, thus ending a ten-year courtship.

He remained in Santa Ana only about two years, being associated with Dr. Price. In 1908 he returned to Los Angeles, associating himself with Dr. Pennemore. This arrangement proved unsatisfactory and Dr. Closson again moved in June, 1909. This time to Anaheim. This was his home for 13 years, the last nine of which he served as livestock sanitary inspector of Orange County. Previously, his practice had been exclusively with large ani-

mals, but about 1920 he started treating some pets. He was, however, at first very careful to avoid being seen doing so. Fearful that some of his large animal clients might find out, he hospitalized the pets in the hay loft.

In 1922 he purchased the old animal hospital owned by Dr. Fosbinder in Hollywood and went into small animal practice exclusively, and in 1924 he erected a new hospital building. 1929 and 1930 found the ubiquitous doctor in Pomona, associated with Dr. Sparks. In 1930 and 1931 his address was in Anaheim once more, and in the fall of 1931 Dr. Closson finally anchored in San Gabriel. Here he has remained.

During the preceding 27 years (since graduation) Dr. Closson had practiced in nine locations: Topeka, Kansas; Los Angeles (twice), Santa Ana, Hollywood, Anaheim (twice), Pomona and San Gabriel. It must be said, however, since coming to California, he remained always in the same general area.

In San Gabriel, Dr. Closson enjoyed a large and remunerative practice, besides being associated with the Humane Association both as veterinarian and on its Board of Directors. In February, 1946, he took Dr. Clinton Baxter as an associate with a half interest, after the latter had served with him as an assistant for four years. At this time he retired from active practice, and is now living at 419 West Leslie Drive, San Gabriel.

Dr. Closson was licensed to practice in California in 1905 and joined the Southern Auxiliary of the California State Veterinary Medical Association (automatic membership in the CSVMA) in 1907. He has served as president of the Auxiliary as well as vice-president and president of the CSVMA. He is a life member of the latter organization since 1948. He was a member of the Southern California VMA until it was disbanded and is a charter member of the Southern California Small Animal Hospital Association. In addition to the above he is a member of the Elks, the Masons, and the Kiwanis Club.

### Dr. T. W. Jackson in Charge Pathology Laboratory, Sacramento

Dr. Thomas W. Jackson, Livestock Pathologist, has been placed in charge of the Sacramento Animal and Poultry Pathology Laboratory, Bureau of Livestock Disease Control, Division of Animal Industry, California Department of Agriculture. The laboratory previously was under the supervision of Dr. Paul D. DeLay who resigned to become chief of the USDA European mission for research on foot-and-mouth disease.



## Paracolon Infections of Turkeys in San Diego County\*

M. E. GOETZ, D.V.M., J. W. DUNSING, D.V.M. and E. R. QUORTRUP, D.V.M.†

In recent years an organism has established itself as a primary pathogen for turkeys in the San Diego area. The organism which has been consistently isolated and incriminated as the causative agent in numerous poult mortalities was identified by Dr. P. R. Edwards and co-workers as Arizona paracolon 7:1,7,8. It has been responsible, in part at least, for several growers dropping out of the breeding business.

Typical ranch outbreaks usually occur from four or five days after hatching and continue through the third week. Losses have been as high as 50 per cent and averaging about 20 per cent. The following symptoms may be seen: inappetence, leg weakness or paralysis, pasting of the vent and quite often blindness in one or both eyes. On autopsy there is frequently seen a retained yolk, swollen and congested livers and caseous cecal plugs. Once mortalities have occurred, treatment with antibiotics or sulfonamides have been disappointing, although Jamison reports encouraging results with furazolidone.

Attempts were made to establish a correlation between outbreaks and the breeders. Eggs were shipped simultaneously from the same breeder flocks to various local ranches. Poult mortalities would occur at one or more ranches but not at others. Eggs from suspected flocks, with a known history of infection, were checked throughout the season with no outbreaks. Attempts to isolate the organism by vent swabs from 200 hens, which had a history of severe mortality as poults, were unsuccessful.

At the beginning of the 1953-54 season an effort was made to demonstrate carriers in breeder flocks. Three ranches, designated A, B, and C, were selected and an experimental plate antigen‡ was used. On ranch A 1,414 birds were tested and there were six reactors. Five of these reactors were autopsied; Arizona paracolon 7:1,7,8 was isolated from each. Two retests 30 days apart were negative indicating that carriers might possibly be eliminated through testing. Of 644 birds on ranch B, 36 were reactors and 11 were found in 599 birds on ranch C.

These reactors were kept in isolation for 30 days and all eggs laid during that period were submitted to our laboratory. Of the 157 eggs received from ranch B, 60 infertiles were removed after ten days of incubation and the organism was isolated from three of them. On the 28th day 43 dead embryos were examined; 14 were infected. Thirty-four apparently

healthy poults were hatched. At the end of 20 days of brooding all 34 were autopsied and were bacteriologically negative. All the infected embryos died prior to hatching. These results would indicate that healthy poults and an absence of carriers may be derived from a known infected flock. Also that the organism is egg-transmitted.

Eighty eggs were received from ranch C. Nine infertiles were removed after ten days incubation; four were infected. Sixteen dead embryos were found on the 28th day; four were infected. Fifty-two apparently healthy poults were hatched. During the first 14 days of brooding 45 of the poults died. All were bacteriologically positive for Arizona paracolon 7:1,7,8. The remaining seven poults were autopsied on the 22nd day; six were infected. There were approximately 85 per cent carriers. This example was typical of some of the field cases seen in the San Diego area.

During the 1953-54 season a breeder-testing program was instigated. A flagellar tube antigen was used. This antigen was developed and produced in our laboratory. The idea for this type of antigen was derived from the Kauffman and Edwards method of identifying flagellar components of *Salmonella*. Approximately 43,600 birds, comprising 55 groups, were tested. Four groups were marketed due to the test results. Five additional groups were marketed upon isolation of the organism from the reactors. No known outbreaks were reported until March. When this outbreak occurred, it was realized that the eggs could have originated from any one or more of 12 flocks. A plan was agreed upon whereby culled eggs from each of these flocks would be examined bacteriologically. The organism was isolated from two flocks which were then retested. From a total of 770 birds, 39 reactors were removed. Our experiences to date have shown that flocks which either tested clean originally, or in which reactors were removed, may be re-infected. This season we are continuing the blood testing program and in addition we are running a routine weekly bacteriological survey on a portion of the culled eggs from each of our growers in an effort to detect outbreaks before they appear in the poults.

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\* Presented at the Western States Poultry Disease Workers' Conference held in conjunction with the CSVMA Midwinter Conference.

† San Diego County Livestock Department, 4005 Rosecrans, San Diego 10.

‡ Supplied by Vineland Laboratories.



## Tests With Phenothiazine

For controlling stomach worms in sheep and cattle the finer the "shot" the greater the kill, University of California experiments indicate.

In a test of phenothiazine in various particle sizes, results favored the finest size used.

The experiment to learn the effect of different particle sizes grew out of recurrent reports of unsatisfactory results with the drug, explained James R. Douglas and Norman F. Baker, parasitologists on the School of Veterinary Medicine faculty at Davis.

Several possibilities for failure were considered: that the medicine might have dropped into the animal's fourth stomach instead of the rumen; that inadequate doses may have been given; and that formulation may have been faulty.

Phenothiazine, the Davis veterinary scientists commented, is relatively insoluble.

"We are convinced," said Douglas, "that the killing action is direct action of phenothiazine particles against the skin of the worm. If we use a lot of small particles, the chances of a hit are greater, and there will be more hits per worm."

In the experiment, conducted by Douglas and Baker in cooperation with William M. Longhurst, zoologist at the University's Hopland Field Station, 40 lambs were used. First the worm egg count was checked and the animals were divided into four groups.

One group of 10 was kept untreated as a control; a second group was treated with phenothiazine in large particles (average size over 150-micron diameter); the third group was treated with medium-size particles (50-micron average); and the fourth group was treated with fine particles (averaging less than 10 microns). Each lamb received 25 grams by capsule, to be sure the doses were uniform. Daily egg counts were made, and on the fifth day the lambs were slaughtered and worms in stomachs and small intestines were counted.

Differences in efficiency of the doses were marked, Douglas and Baker reported. Reduction in worm count in lambs treated with the large particle phenothiazine was only 20 per cent. In lambs getting the medium particles the count dropped 70 per cent; and in the fine-particle group the drop was 95 per cent.

"Some other work with mice," said Douglas, "suggests that on a weight basis fine material is two times as effective as medium material. The effect is the same as cutting the dose by one-half."

Phenothiazine preparations on the market, he commented, vary considerably. The next step in the Davis experiments, he said, will be to try to learn the range in particle sizes that will be most effective.

## Statewide Bang's Disease Committee Meeting

On April 12 the Statewide Bang's Disease Committee met at the State Department of Agriculture, Sacramento. Chairman Joe Hart presided.

Dr. J. E. Stuart gave a progress report on the tuberculosis program, and also reported on the vaccination for brucellosis program.

Dr. John M. King, representing the CSVMA, reporting for the contract veterinarians, advised that the coverage now is good. The fact that the number of calves vaccinated, he said, is smaller, is an economic condition.

Commenting on the Del Norte County Dairy-men's Association request for a brucellosis-free area, Dr. Ben Dean said: "The number of new reported cases is going down. There has been a drop from 200 to 40, which is a very marked decline. Diagnosis is much better than it used to be and reporting is more accurate. Work is now going on to determine sources of infection."

General discussion brought out the following points: That the request for certification is on a herd basis. It would not be possible to treat Del Norte County as an experimental area. The extension service could not issue certifications. Existing law does not provide for issuing certifications. Three ring tests and one blood test required for area certification (USDA).

Attending the meeting were:

J. E. Stuart, A. G. Boyd, W. H. Rockey, C. L. Pellissier, C. R. Knight, J. N. Fulmor, E. F. Chastain, H. G. Wixon, R. S. Manlove, R. C. Maris, Lewis Ulrich, Robt. Westbrook, Ray Rumiano, Richard Rumiano, A. O. Ghiggole, J. P. Cheek, K. F. Layman, Gordon Van Vleck, Col. D. S. Stevenson, C. L. Ranney.

K. G. McKay, D. E. Jasper, J. W. Kendrick, R. D. Richards, A. H. Clark, J. M. King, W. A. McDonald, G. E. Gordon, M. D. Moys, F. H. Abbott, Sr., H. G. Claudius, Ben Dean, C. V. Misuraca, Joe Hart, P. K. Huff, Ray Griffin and H. P. Bonnickson.

## Dr. P. D. DeLay to New Post In Amsterdam, Holland

Dr. Paul D. DeLay, Livestock Pathologist, in charge of the animal and poultry disease laboratory, California Department of Agriculture, has been designated as Chief of the European Mission for Research on Foot-and-Mouth Disease, Agricultural Research Service, U. S. Department of Agriculture, with headquarters at Victoria Hotel, Amsterdam, Holland. He is a former president of the CSVMA.

Dr. DeLay will remain in Europe for two years following which he will return to the United States to perform further research at the U. S. Department of Agriculture foot-and-mouth disease laboratory on Plum Island, New York.

He was born in Presho, South Dakota, and received his Doctor of Veterinary Medicine Degree from Iowa State College in 1934.

## Veterinary Public Relations

An excellent example of good public relations for the veterinary profession was demonstrated on April 19, when Dr. George W. Eberhart, president of the Bay Counties VMA, addressed 90 members of the Richmond Lions Club.

Dr. Eberhart delivered an interesting talk on the veterinarian, accompanied by colored slides.

It was the pleasure of your assistant executive secretary to attend this luncheon meeting, and he was impressed by Dr. Eberhart's streamlined presentation, which included the education necessary to become a veterinarian, his varied type of activities in meat inspection, laboratory work, vaccination and examination of animals, and his work in small animal hospitals.

To reach the general public in this way, and to speak in layman's language, is public relations for the profession at its best. Dr. Eberhart is to be commended on the program he is undertaking in the Bay Area.

President Zontine (see Editorial this issue) stresses the need for dynamic public relations for the CSVMA. If only one member of the Association in each city and town would undertake a program similar to Dr. Eberhart's—addressing service clubs, schools, churches, etc.—on the veterinarian's service to the public, our public relations program would be well on the way to success.

## State Dept. of Public Health Observes 85th Anniversary

On April 15, the State Department of Public Health observed the 85th anniversary of its founding. The department commemorated the occasion by moving into its new headquarters building at 2151 Berkeley Way, Berkeley.

"The people of California have provided us with a modern plant in a beautiful setting," said Malcolm H. Merrill, M.D., M.P.H., State Director of Public Health, "and with the occupation of this building we public health workers dedicate ourselves anew to the service of the people of California."

## Applicants

Charles E. Childs, Hemet: Vouchers: Clark J. Stillinger, W. J. Zontine.

John R. Sujo, San Francisco. Vouchers: S. T. Michael, Richard L. Stowe.

Colonel and Mrs. Robert J. Foster have returned to San Francisco from an extensive European trip. Their many friends will be able to greet them at the Monterey Convention.

## AVMA Convention, Minneapolis, August 15-18

The ninety-second annual convention of the American Veterinary Medical Association will be held in Minneapolis, August 15-18. This will be the third time that the Minnesota city has hosted the Association.

All regular convention sessions, section meetings and exhibits will be held in the Minneapolis Auditorium. The usual business sections of the AVMA Executive Board, House of Representatives and other bodies will be held at the Hotel Radisson, beginning on Tuesday, August 9th. The pre-convention conference this year will be devoted to the subject of "Veterinary Medical Examination and Licensure," and will be held on Sunday, August 14th, at the Radisson.

This conference will be attended principally by members of state boards of veterinary medical examiners, state association secretaries, livestock sanitary officials and persons in veterinary education.

Registration at Minneapolis is certain to better the mark set at the Toronto session in 1953.

The rather central site of the 1955 convention city and the large number of veterinarians within easy travel distance of it, plus the vacation and resort attractions nearby, are factors which lead planners of the meeting to expect an attendance of from 4,000 to 4,500.

## Governor Appoints CSVMA Prexy to State Board of Examiners

Governor Goodwin J. Knight has appointed Dr. William J. Zontine, president CSVMA, to the Board of Examiners, Veterinary Medicine.

Others on the Board are Dr. Eugene C. Jones, president; Dr. R. A. Ball, vice-president; Dr. Gaylord K. Cooke, secretary, and Dr. William K. Riddell.

## Examination June 23, 24 and 25

The Board of Examiners, Veterinary Medicine, will hold an examination for the licensing of qualified veterinarians June 23, 24 and 25 in the School of Veterinary Medicine, Davis.

## Address Changes

It is very important that we be notified of changes of address immediately. There are various records to change in the office, and the Journal, being second class mail, is not forwarded.

## LOCAL ASSOCIATION NEWS

Sixty-seven members and guests attended the Bay Counties VMA meeting, April 12, at the Villa Chartier, San Mateo.

Guest of honor was Dr. Samuel F. Scheidy, chairman of the Executive Board, AVMA; Research Department, Sharp & Dohme, and associated with the University of Pennsylvania.

The major portion of the meeting was devoted to a discussion of the Pet Health Plan, and what can be done about it. The summary arrived at was: (1) to "close ranks," and not sign up; (2) to form a competitive plan, e.g., the C.P.S., as the physicians have done. A committee was formed to work on this and report at the Monterey meeting.

Dr. Jack Hylton served as toastmaster and introduced Dr. John O'Harra, who gave an interesting talk on "The Effects of Atomic Radiation on Animals in the Nevada Tests."

Other guests included Dr. Arthur Eckert, Inspector in Charge, Meat Inspection Division, Agricultural Research Service of the U.S.D.A., and Lt. Robert Craig, a recent graduate of Ohio State and now stationed at the Presidio of San Francisco.

The following attended the meeting:

Emmet Paul, George Eberhart, Charles S. Travers, John O'Harra, Jack W. Hylton, Rex Taylor, Roger A. Burr, J. R. McMurray, Geo. P. Bertetta, B. A. Hoehner, B. O. Hebert, C. W. Kay, W. B. Condon, R. B. Abbott.

I. M. Roberts, Robert W. Olsen, Robert N. Clemens, John McInnes, John S. Blackard, John T. Turver, Alan G. Perkins, Thos. Ohlson, Thos. McIntyre, Howard Carroll, Hans A. Albertson, Hans H. Schwab.

J. W. Roberts, D. M. Strohauser, S. T. Michael, E. G. LeDonne, Richard L. Stowe, J. M. Hicks, G. T. Simmons, M. Dow, L. M. Proctor, C. E. Brown, Chauncey B. Miller, C. N. Bramer, J. K. Perry.

John R. Sujohn, A. F. Eckert, R. L. Craig, C. E. Taylor, E. C. Bland, O. A. Longley, M. A. Northrup, Wm. Stansbury, J. M. Christensen, T. D. Harris, George H. Muller, Leo Lindauer, W. L. Johnson, L. O. Johnson.

P. H. Hand, Charles Chase, Charles D. Stafford, E. S. Cooper, N. T. Freid, W. E. Mottram, Wm. R. Linfoot, Albert Chafets, F. Wachs, S. M. Goldberg, Henry L. Sommer, Lawrence Loffer, John Morris.

Joe Brown, H. D. Ivie, Kenneth Devine, Bruno Turkheimer, A. J. Gutknecht, Ernest M. Cohan, Harold H. Groth, B. F. Murray, Joseph M. Arburua, Sam F. Scheidy.

## Southern California VMA

A special meeting of the executive committee of the Southern California VMA was held at the Statler Hotel, Los Angeles, April 15, for the purpose of discussing the Pet Health Plan.

The matter was studied and several plans were presented, to be taken under advisement.

Attending were the following executive committee members: R. H. Hurt, president; W. W. Putney, vice-president; H. C. Taylor, secretary; F. P. Wilcox, treasurer; C. L. Hare,

## OUT-OF-STATE NEWS

The Arizona Veterinary Medical Association has elected Dr. George Calderhead, Chandler, president; Dr. John L. Hinds, Tucson, president-elect; and Dr. E. R. Hinshaw, Buckeye, secretary-treasurer.

\* \* \*

The Washington State Veterinary Medical Association has elected Dr. Don W. Clarke, Seattle, president; Dr. Roy I. Hostetter, Goldendale, vice-president and president-elect, and Dr. Bernard R. Pinckney, Tacoma, treasurer.

\* \* \*

The Nevada State Veterinary Medical Association recently elected Dr. E. E. Maas, Reno, president; Dr. Murray H. Phillipson, Las Vegas, vice-president, and Dr. Edward Records, Reno, secretary-treasurer. Newly-elected members are: Dr. W. H. Hilts, Reno; Dr. Thomas A. Newland, Van Nuys; and Dr. R. A. Bennett, Jr., Reno.

\* \* \*

The Northwest Veterinary Medical Association will hold its annual meeting July 25-27, in the Multnomah Hotel, Portland, according to Dr. E. L. Holden, secretary-terasurer.

*The above groups, as well as all others in this area are cordially invited to the CSVMA annual convention, Monterey, June 20-22.*

## Dean Cross Appointed Air Force Consultant

Dr. Floyd Cross, Dean of the School of Veterinary Medicine, Colorado A. and M. College, has been appointed National Consultant in Veterinary Medicine by Major General Dan C. Ogle, the Surgeon General, United States Air Force.

He will function as advisor to the Surgeon General on matters pertaining to the Air Force veterinary public health program and military veterinary medicine in general.

Dr. Cross is president-elect of the AVMA.

director, and J. B. Crundwell, past-president.

Other committee members included P. C. Olson, A. Mack Scott, B. F. Pike, Harold Snow, R. C. Vierheller and Darr Jobe. Visitors at the meeting were Dr. Samuel F. Scheidy, Dr. Joseph M. Arburua and Charles S. Travers.

\* \* \*

## Kern County VMA Officers

Newly elected officers of the Kern County VMA are: President, Dr. Albert Batista, Bakersfield; vice-president, Dr. Richard Stiern, Bakersfield; secretary-treasurer, Dr. B. C. Watson, Bakersfield.

## In Memoriam

### DR. PLEASANT HARVEY BROWNING



Dr. Pleasant H. Browning passed away on April 16, in San Jose. "P.H." as he was familiarly known, was born on a farm near Virden, Illinois, June 22, 1869. After graduating from New York Veterinary College in 1891, he located in Carrolton, Missouri. Shortly after the turn of the century, Dr. Browning settled in San Jose.

The modern, well-equipped large animal hospital he built in 1909 was perhaps one of the finest to be found at that time. After World War I he retired from practice and interested himself in real estate, but his first love was too strong and he became Chief Territorial Veterinarian of Hawaii, from 1923 to 1927. Returning to San Jose, Dr. Browning entered the small animal field, built a modern hospital and maintained a successful practice until he retired in 1945.

He was president of the CSVMA, 1907-08, and made a life member in 1946. His membership in the AVMA dates from 1907. In 1925 he was vice-president of the national association. In 1953, the CSVMA presented Dr. Browning with the 50 Year Award Certificate.

Surviving Dr. Browning are a widow, Sara, and a son, Baker.

### DR. F. W. WOOD

His many friends will regret to learn that Dr. F. W. Wood died suddenly of a heart attack Saturday, April 16, at his home in Lafayette. Dr. Wood was Veterinary Medical Director of Cutter Laboratories, Berkeley, California, from 1914 until his retirement in 1946. He received his veterinary degree from

Cornell University in 1907. After graduation, he went to the Philippine Islands and was associated with the Philippine Bureau of Animal Industry on the production of serum and virus for prevention of rinderpest. Soon after his return to the States, he became associated with Cutter Laboratories in 1914. Dr. Wood was well known and respected by both the veterinary profession and the livestock industry. His counsel was often sought and always valued.

### Bovine Imports to New Jersey

Your attention is directed to the law of the state of New Jersey passed in 1946 which becomes effective on July 1, 1955, identified as Chapter 4:5-93.40 of the Revised Statutes and reading as follows:

"4:5-93.40. *Importation into state.* On and after July first, 1955, only bovine animals which are negative to a test administered within 30 days prior to entry into New Jersey and which also have had an official calfhood vaccination or are from an accredited brucellosis-free herd may be imported into New Jersey, except that animals under the age of two years which are accompanied by an official certificate of vaccination may be imported without said test."

### Dr. R. R. Dykstra Honored

Celebrating the Golden Anniversary of Kansas State College, the Annual Conference of Veterinarians will be held at the Dykstra Veterinary Hospital, June 3-4.

The occasion will honor Dr. R. R. Dykstra, Dean Emeritus, after whom the hospital is named, and commemorates the 50th year of degree offering of the School of Veterinary Medicine.

Dr. Dykstra, Department Editor of *Veterinary Medicine*, received his D.V.M. degree from Iowa State College in 1905, joined the Kansas State College faculty in 1911, and in 1919 became the first dean of the School of Veterinary Medicine.

### Lederle Offers Scholarships

Lederle Laboratories Division, American Cynamid Company, has announced the creation of the "Lederle Veterinary Medical Students Research Scholarship" of \$1,000 for each accredited Veterinary College.

The scholarships, according to Lederle officials, become available on July 1, 1955, and will be turned over to the Dean of each Veterinary College for administration and selection of a student.

The purpose is to combat a shortage of well-trained research workers in the field of veterinary medicine.



## THE EDITOR REVIEWS THE ADS

**Research Laboratories, Inc.**, of St. Joseph, Missouri, announce their **RL Rabies Vaccine**, **Modified Live Virus**, **Chick Embryo Origin Vacuum Dried**, for more positive immunization. Supplied in 1 vial vaccine (10-dose size), with diluent, and 5 vials vaccine (5-1 dose) with 5 vials of diluent, **Rabies Vaccine** is easily administered. Because of the "Reconstitquick" feature, the vaccine immediately is reconstituted and goes into a fine homogenous suspension which passes easily through a 24 gauge needle.

★ ★ ★

**Lederle's** double page in color features **Polyotic Tetracycline**, including **Polyotic Intramuscular**, **Intravenous**, **Oblasts**, **Capsules**, **Tablets**, **Mastitis Ointment**, **Compound Mastitis Ointment**, **Ophthalmic Ointment**, **Topical Ointment** and **Soluble (tinted) Powder**. Other products in their professional line include: **Avianized Rabies Vaccine (canine)**, **Avianized Rabies Vaccine (cattle)**, and **Avianized Canine Distemper Vaccine**.

★ ★ ★

A superior ultra-short-acting intravenous anesthetic, **Surital Sodium**, is featured by **Parke, Davis & Company**. Experience of **Surital** in animals has shown that induction of **Surital Sodium** is smooth and rapid, and is free of excitement or irritability and undesirable side reactions. **Surital Sodium (Thiamylal Sodium, Park-Davis)** is supplied in various convenient sizes.

★ ★ ★

An effective therapeutic agent for the treatment of certain skin conditions in small animals and horses is described by **Travenol Laboratories, Inc.** It is **Piromen**, a biologically-active bacterial polysaccharide derived from a *Pseudomonas* organism, which when administered parenterally, produces a marked leucocytosis, and a generalized activation of the reticulo-endothelial system. **Pruritus**, **eczema**, **urticaria**, and a variety of dermatoses of non-specific origin have responded successfully and rapidly to the administration of **Piromen**, according to its makers.

★ ★ ★

**Entromycin**, combining **Carob Powder**, a product of **Pitman-Moore Co.**, has demonstrated its effectiveness by its use in a number of widely separated communities and in a variety of cases of diarrhea in dogs and scours in calves. Effective, palatable and economical, **Entromycin** is a remarkably effective intestinal astringent, demulcent, toxin absorbent and protectant. It has been proved in practice through control of infectious diarrhea in infants. Dosage for dogs: 1 rounded teaspoonful per 20 pounds body weight, repeated every

4 hours to effect. Calves: 1 ounce every 8 to 12 hours.

★ ★ ★

"Gentle as a Kitten" . . . **Haver-Glover Laboratories** introduces **Novin** thusly. Non-habit forming and equally active if administered intravenously, intramuscularly or subcutaneously, **Novin** provides an effective analgesic action for large and small animals. It soothes and relaxes smooth muscle contractions. . . . spasms of the esophagus or cervix, and relieves the pain of tendovaginitis, myositis, paralysis, tetanus and other similar conditions.

★ ★ ★

**Clipmaster**, the easy-to-use clipper for dogs, cows, horses, mules, etc., is **Sunbeam Corporation's** suggestion for veterinarians who want an instrument of convenient size, ease of handling and durable. It gives neat, professional results, and is balanced for clipping in all positions. Blades stay sharper, last longer. The motor is powerful, air-cooled and there is an easy-grip handle. Special bottom blades available for all breeds of dogs.

★ ★ ★

**Ashe Lockhart** rightly believes that a product which makes the "First Team" must be good. Their **Anti-Canine Distemper** and **Infectious Hepatitis Antiserum** makes the first team, and they go on to say "there are no close substitutes for this time-proven product." Quality . . . never equalled. Efficiency . . . never questioned. **Tri-Anti . . . The Virus of Carre**; **Infectious canine hepatitis**; **Secondary bacterial invaders**.

★ ★ ★

For spring vaccination, **Cutter Laboratories** feature **Blucine**, **Bluetongue vaccine**. It is a live, modified virus vaccine for the immunization of healthy sheep against bluetongue infection. The virus used for production of **Blucine** is modified by serial passage in chick embryo tissue culture. Each package contains the dried, vacuum sealed virus and a bottle of diluent. Recommended dosage: 2 cc. regardless of age or breed.

★ ★ ★

**Kendall Foods, Inc.**, makes its advertising debut in this issue of **THE CALIFORNIA VETERINARIAN**. They stress "Avoid Feeding Waste" through use of **Walter Kendall's "fives" Quick-Mix Kibbled**. Food is often wasted in corners and grooves of feeding dishes; but not so with **Quick-Mix**, they claim. For variety, there are five flavors in each "fives" package—and 33 nutritious ingredients. Feeding plan booklets and generous samples are available. This firm invites you to visit their booth in Monterey, June 20-22.

## CLIP DOGS REGULARLY WITH

# Sunbeam STEWART ELECTRIC CLIPMASTER

Preferred by Veterinarians everywhere for its convenient size, ease of handling and lasting durability.

Keep dogs clipped the year 'round for healthier, cleaner pets. Sunbeam Stewart Clipmaster gives neat, professional results. Easy-to-use. Balanced for convenient clipping in all positions. Patented "friction-free" tension control assures perfect tension, easy adjustment. Blades stay sharper, last longer. Clipmaster also recommended for cows, horses, mules, etc. Shipped with set of blades. \$40.25.

**Sunbeam CORPORATION**

5600 W. Roosevelt Road, Dept. 192, Chicago 50, Illinois



Clipmaster's powerful, air-cooled motor is inside the easy-grip handle. Special bottom blades available for all breeds of dogs.

**\$200 per month for Accident...**

**\$200 per month for Sickness...**

**\$1000 Accidental Death . . . \$10,000 Dismemberment**

Approved-Recommended  
by  
**CSVMA**

**PLUS** Hospital Residence Expense, \$8 per day up to 70 days—Miscellaneous Hospital Expense up to \$100—Surgical Operation Expense, \$7.50 to \$225.

Here is Professional Group Accident and Sickness Insurance giving Maximum Protection at Minimum Cost—Note these low Semi-Annual Premiums: Ages thru 49, \$45.75 — Ages 50 thru 59, \$52.20 — Ages 60-65, \$61.88.

For Further  
Information



**J. L. TOOLE, General Agent**  
**NATIONAL CASUALTY COMPANY**  
605 Market Street—San Francisco 5  
EXbrook 2-2440

An additional \$100 per month may be available to you. Write for details.

**CHARLES S. TRAVERS**  
**Executive Sec'y, CSVMA**  
3004 16th Street—San Francisco 3

or

**POWER & DALZIEL**  
**Brokers**  
465 California St., San Francisco



# Pathology of the Dog and Cat

—Genitourinary System  
with clinical considerations

By Frank Bloom, D.V.M.



This book describes in detail the special pathology of the genitourinary system of the dog and cat. The descriptions of the various lesions consider the pathologic anatomy, the incidence, the etiologic factors, the clinical pathology, and the clinical correlations. This 480-page book contains reproductions of 312 excellent gross and microscopic photographs that accurately depict the described lesions.

This fine treatise is the work of a well qualified veterinary clinician and pathologist. It represents the essence of more than 25 years of work on the part of the author in his study of diseases of dogs and cats, and in it the correlation of the symptoms with the lesions makes this of specific value to the practitioner.

Price, \$12.00 per copy in the U.S.A. Elsewhere, \$12.50 in U.S. Funds.

American Veterinary Publications, Inc.  
Box 872, Evanston, Illinois

## American Animal Hospital Assn. Meeting Held in Detroit

The 21st annual meeting of the AAHA was held May 4-7, at the Statler Hotel, Detroit. Over 400 veterinarians were in attendance, with a total registration of 700 veterinarians and exhibitors.

"Hospital Gadgets," by Doctors V. G. Crago and M. A. Custer, Youngstown, Ohio, attracted much attention, as they demonstrated many innovations that are timesaving in the operation of a small animal hospital.

"Drainage of Inner Ear Through the Inner Ear," a film, was well demonstrated by Dr. Norman L. McBride, Pasadena.

"Psychology Affecting Doctor-Client Relationships," by Kenneth B. Haas, Loyola University, Chicago, touched on the many sensitive angles between client and the practitioner. He explained that each person's problem should be individually considered.

In all veterinary meetings of major import in recent years, the closed-circuit TV programs have contributed much. The TV program at the meeting was televised via courtesy of Allied Laboratories, Inc., and RCA.

Among the outstanding were: "Discussion of Radiology in Practice," TV outlined therapy and interpretations of bone changes.

"Your Hospital in Operation," TV, depicting an actual busy small animal hospital in operation with office nurses, two veterinarians, was unique. It showed clients entering the office with pets, nurses referring to motor-operated files with the veterinarians in consultation and the respective therapeutic procedures.

Friday afternoon, May 6th, was devoted to TV surgery; blood transfusion of the cat through the intermedullary canal of the femur, drainage of a preorbital abscess, surgical correction of a ruptured disc and numerous other surgical procedures.

Saturday morning, May 7th, was devoted mainly to the cat—nutrition and clinical diagnosis.

The new officers for the coming year were installed: President, Dr. Wm. F. Irwin, Tulsa, Okla.; Vice-President, Dr. Joseph Millar, Deal, N. Y.; Secretary, Dr. Wayne Riser, Skokie, Ill.; Treasurer, Dr. A. R. Theobald, Cincinnati, Ohio. Dr. James H. Yarborough, Miami, Florida, was elected president-elect for 1956-57. The annual meeting will be held in Miami, Florida.

Among California veterinarians present at the meeting were Dr. Don Barr, Dr. and Mrs. T. A. Berry, Dr. Howard Carroll, Dr. J. W. Harrison, Dr. Marvin Harvey, Dr. Tom McIntyre, Dr. B. F. Murray, Dr. I. W. Roberts, Dr. J. W. Roberts, Dr. Wm. Riddell, Dr. A. Mack Scott, Dr. Sid Smith, Dr. R. L. Stansbury, Dr. Wm. Steinmetz, Dr. Reg Stocking and Dr. Carrie Welsh.

Reported by Dr. B. F. Murray.

THE CALIFORNIA VETERINARIAN

# OPPORTUNITIES

## Relief Veterinarian

Known to most California veterinarians. Long experience in both large and small animal practice. Arrangements made by appointment. Anywhere in California. A chance for you to take that overdue vacation. Call or write O. W. Kerr, Route 7, Box 1838, Modesto, California. Telephone Modesto 2-1108.

\* \* \*

## For Sale

Complete laboratory building, 2 years old, with adjoining lot, fully equipped for manufacture of biological and/or pharmaceutical injectibles. N.I.H. and B.A.I. approved. Plant in Berkeley, close to University. Price \$55,000. For further information write G. P. Rebold, 1626 Sacramento St., Berkeley, 2.

\* \* \*

Completely equipped small animal hospital, with garage and 2-room furnished apt. Established 28 years in large northern California city. Good location; veterinarian retiring. 50 kennels. Monthly business around \$1,800. Write Box A-22, THE CALIFORNIA VETERINARIAN.

\* \* \*

Mixed practice in northern Sacramento Valley, mainly dairy. Average gross last three years \$18,600. Four-room clinic on 1/2 acre, 66 ft. highway frontage. Will sell with or without large house on 1 acre adjoining. D. W. Lunt, D.V.M., Box 645, Corning.

\* \* \*

Completely equipped small animal hospital, 40 kennels, long established, good corner location in large California city. Priced to sell. Owner retiring. Write Box A26, THE CALIFORNIA VETERINARIAN.

\* \* \*

## Why Not Locate in the San Fernando Valley?

—the fastest growing section in America. I have an excellent location for a veterinarian—properly zoned. It is unsurpassed from every standpoint. Size of lot 100' x 245' with 11 shade trees, lawn, flowers, shrubs, sprinkler system, 690 feet of cement block wall. 880 square foot building—office—treatment room, workroom and tiled bath, plus 3000 square feet of cement slab. Circular driveway with ample parking. Exceptional value. For more details—write owner—E. M. KREKORIAN, 16539 Saticoy Street, Van Nuys, California.

## For Sale or Lease

San Mateo County—Large modern boarding kennels located in select area for combination Veterinary Hospital and boarding kennel. Building covers 5000 sq. ft. on lot 125 x 250. Includes treatment, grooming and storage rooms; cat ward; 29 large 5 x 6 sleeping quarters with adjoining runs; wards house 5-unit steel and aluminum cages. There are 72 5 x 25 chainlink runways all paved. The entire front and patio courtyard are landscaped. Walls of lounge, office and corridor are leather upholstered. There are two complete apartments in the building for kennel help. There is ample room for conversion or can be used as is. This is an established kennel with an excellent clientele. Excellent proposition for right party. Please write Box A-23, THE CALIFORNIA VETERINARIAN.

\* \* \*

Richardson Bay Kennels and Pet Hospital ideally located at 230 Shoreline Highway, Marin County. Originally planned for owner-operated kennels in conjunction with pet hospital, but now owner desires make entire layout available to Veterinarian. Main building 2-story frame wood-stucco 36' x 36' fronting highway, 4 large rooms on ground floor suitable for operating, office, etc., with living quarters upstairs: 1 bedroom, large living and dining rooms, fireplace, kitchen, and wall-to-wall carpeting. In rear 20' x 40' garage building can be used for multitude of purposes. Kennel building, 20' x 30' frame-stucco, with facilities for bathing and grooming, with 10 dog runs. Additional small building 12' x 22' for cat department. All improvements completed in January, 1955. Ample parking space, with room for additional runs or improvements. Price, \$50,000.00. Will consider 3-year lease with Option to Purchase to responsible party. For full particulars see Emil Pohli, No. 8 Corte Madera Ave., phone DUNlap 8-2872, Mill Valley, California.

\* \* \*

## Wanted

Mid-West graduate desires position for 1-3 months until called into Army. Write Box A-24, THE CALIFORNIA VETERINARIAN.

\* \* \*

## Position Wanted

Veterinarian desires position or association with small animal practitioner in California. One year general practice—mainly small animal. California license. 26 years old. Married with family. Military service expires 31 August. Write Box A-25, THE CALIFORNIA VETERINARIAN.

FROMM LABORATORIES ANNOUNCES

## trivalent SERUM

for effective one-dose  
protection and  
treatment against

these **3**

DISTEMPER  
INFECTIOUS  
HEPATITIS  
**plus**  
LEPTOSPIROSIS



(contains neutralizing antibodies with a minimum titer of 1 to 500 against *Leptospira Canicola* Sp.)

NOW — a new FROMM development . . . TRI-VALENT SERUM! By administering TRIVALENT serum a quick, passive immunity is provided against *all three* of the major infectious diseases of dogs.

ALWAYS inject FROMM TRIVALENT when the symptoms of your dog patients indicate that complete protection is needed against these three — distemper — infectious hepatitis — and leptospirosis.

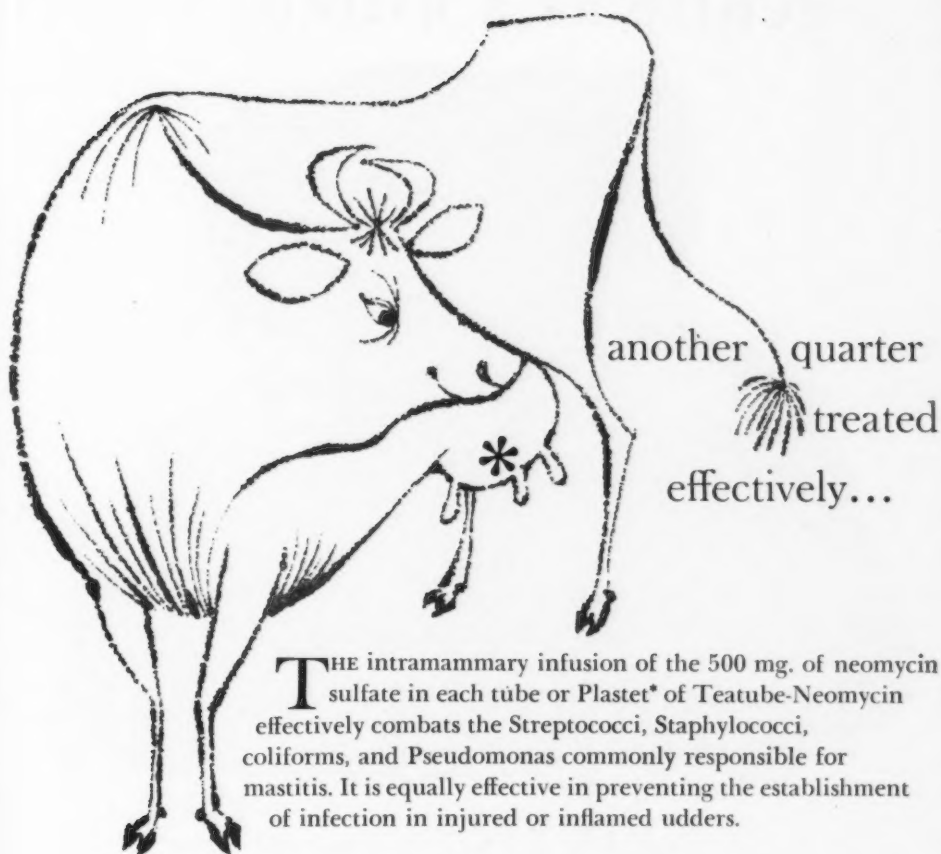
- Sold only to Qualified Graduate Veterinarians
- Supplied in 50 cc. and 100 cc. vials

CONTACT YOUR LOCAL DISTRIBUTOR

**FROMM LABORATORIES, INC.**

Grafton, Wisconsin, U.S.A.





THE intramammary infusion of the 500 mg. of neomycin sulfate in each tube or Plastet\* of Teatube-Neomycin effectively combats the Streptococci, Staphylococci, coliforms, and Pseudomonas commonly responsible for mastitis. It is equally effective in preventing the establishment of infection in injured or inflamed udders.



## TEATUBE\* NEOMYCIN

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another product of **Upjohn**  
**Research** for the veterinarian

Available from Branches of The Upjohn Company and from prescription pharmacies in single-dose 3.5 gram collapsible tubes, and single-dose 3.5 gram disposable plastic syringes (Plastets).

DEPARTMENT OF VETERINARY MEDICINE  
The Upjohn Company, Kalamazoo, Michigan

gentle as a kitten



**NOVIN**... *provides an  
effective analgesic action for  
large and small animals*

NOVIN soothes and relaxes smooth muscle contractions . . . spasms of the esophagus or cervix and relieves the pain of tendovaginitis, myositis, paralysis, tetanus and other similar conditions . . . painful sprains and bruises and digestive disturbances in farm animals and pets can also be successfully treated with NOVIN.

NOVIN is non-habit forming and is equally active if administered intravenously, intramuscularly or subcutaneously.

Supplied in: 6-30 cc. vials  
2-15 cc. vials

**H A V E R - G L O V E R   L A B O R A T O R I E S**

Sharpe and Co., 460 N. Robertson Blvd.  
Los Angeles 48, Calif.

Central City Chemical Cons'd, 215 2nd St.  
San Francisco 5, Calif.



for  
 "double-barrelled"  
 action in  
**canine diarrheas**  
 and  
**calf scours:**



A CASE OF  
 CALF SCOURS

# entromycin

TRADE MARK

combining CAROB POWDER (AROBON®)

—the remarkably effective intestinal astringent, demulcent, toxin absorbent and protectant. Proved in practice through control of infectious diarrhea in infants.

## BACITRACIN AND STREPTOMYCIN

Specific against the common intestinal pathogens.  
 Present in adequate dosage.

Entromycin has demonstrated its effectiveness by its use in a number of widely separated communities and in a variety of cases of diarrhea in dogs and scours in calves. Effective. Palatable. Economical.

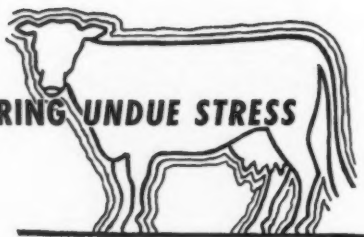
Dosage: Dogs: 1 rounded teaspoonful per 20 lbs. body weight, repeated every four hours to effect.  
 Calves: 1 ounce every eight to twelve hours.

*In cartons of six 4 oz. bottles.*

PITMAN-MOORE CO. DIVISION OF  
**ALLIED LABORATORIES, INC.**  
 INDIANAPOLIS



FOR STIMULATING ANIMALS DURING **UNDUE STRESS**



**dynamone**  
ARMOUR

Primary ketosis of dairy cows  
(if glucose therapy is utilized)\*

Dehydration

Fever toxemias

Exhaustion or fatigue

Pre- and postoperative support

Management of convalescence

Cachexia

\*Dynamone (Armour) cannot be considered as a replacement for Adrenomone in severe cases of primary ketosis.

## 2-way therapeutic action

An efficient and economical physiological stimulant, containing 100 U.S.P. units of ACTH in a 50% glucose solution. Dynamone (Armour) provides the animal with a two-fold source of energy (1) REPLACEMENT THERAPY glucose being an immediate available energy source.

(2) STIMULANT THERAPY — ACTH serves as a stimulant for adrenals providing the entire spectrum of gluco-corticoids (compound E-and F-like steroids) which in turn accelerate the conversion of fat and protein to glucose and glycogen.

Dynamone (Armour) maintains the blood sugar concentrations at normal or above normal levels for eight or more hours and is four or more times as effective as glucose alone in maintaining blood sugar levels.



Package information: Dynamone (Armour) is available in cartons containing 6 and 12 x 500 cc. bottles.



**Veterinary Laboratories**

A Division of Armour and Company  
520 N. Michigan Ave., Chicago 11, Ill.

*New dispensing size  
for greater convenience  
and profit!*



# TERRAMIX<sup>\*</sup>-5

(5 Gm. of Terramycin hydrochloride activity per lb.)



# TERRAMIX<sup>\*</sup>-10

(10 Gm. of Terramycin hydrochloride activity per lb.)

these popular and effective  
Terramycin<sup>†</sup> feed supplements  
are now available  
in 5-pound canisters

REMOVABLE LABEL  
STURDY, RE-USABLE CONTAINER  
GOOD PROFIT MARGIN



<sup>\*</sup>TRADEMARK  
<sup>†</sup>BRAND OF OXYTETRACYCLINE

Department of Veterinary Medicine



PFIZER LABORATORIES, Brooklyn 6, N. Y.  
Division, Chas. Pfizer & Co., Inc.

# POLYOTIC

## Lederle Professional Line

- POLYOTIC\*** INTRAMUSCULAR:  
100 mg.-500 mg.-1.0 Gm.-5.0 Gm.
- POLYOTIC** INTRAVENOUS:  
100 mg.-2.5 Gm.
- POLYOTIC OBLETS®**: 4's-6 x 4's
- POLYOTIC CAPSULES**: 50 mg., 25's-100's;  
100 mg., 100's; 250 mg., 16's-100's
- POLYOTIC TABLETS**: 50 mg., 25's-100's;  
100 mg., 25's-100's; 250 mg., 16's-100's
- POLYOTIC MASTITIS OINTMENT**: ¼ oz.
- POLYOTIC COMPOUND MASTITIS OINTMENT**: ¼ oz.
- POLYOTIC OPHTHALMIC OINTMENT 1%**:  
6 x ½ oz.
- POLYOTIC TOPICAL OINTMENT 3%**: 1 oz.
- POLYOTIC SOLUBLE (Tinted) POWDER**:  
¼ lb.-½ lb.-1 lb.-5 lb.
- AVIANIZED® RABIES VACCINE (Canine)**:  
1 dose-5 x 1 dose-10 doses
- AVIANIZED RABIES VACCINE (Cattle)**: 10 doses
- AVIANIZED CANINE DISTEMPER VACCINE**:  
1 dose-10 x 1 dose
- ANTI-CANINE DISTEMPER SERUM AND ANTI-INFECTIOUS  
CANINE HEPATITIS SERUM**: 20 cc. 100 cc.
- INFECTIOUS CANINE HEPATITIS VACCINE**: 2 cc.-10 cc.
- BRUCELLA ABORTUS VACCINE**: 1 dose-5 x 1 dose-  
5 doses (25 cc.)
- FELINE DISTEMPER VACCINE**: 1 immunization (2 vials  
Vaccine, 2 vials Sterile Diluent, 2 cc.)
- ANTI-FELINE DISTEMPER SERUM**: 50 cc.
- CARICIDE® Diethylcarbamazine TABLETS**:  
400 mg., 25's
- DIETHYLSTILBESTROL SOLUTION**: 10 cc.-50 cc.
- LEPTOSPIRA CANICOLA-ICTEROHEMORRHAGIAE BACTERIN  
Whole Culture Inactivated Vacuum-Dried.**
- Other products to be added.

\*Trade-Mark



LEDERLE LABORATORIES DIVISION

Pearl River

AMERICAN CANNON COMPANY

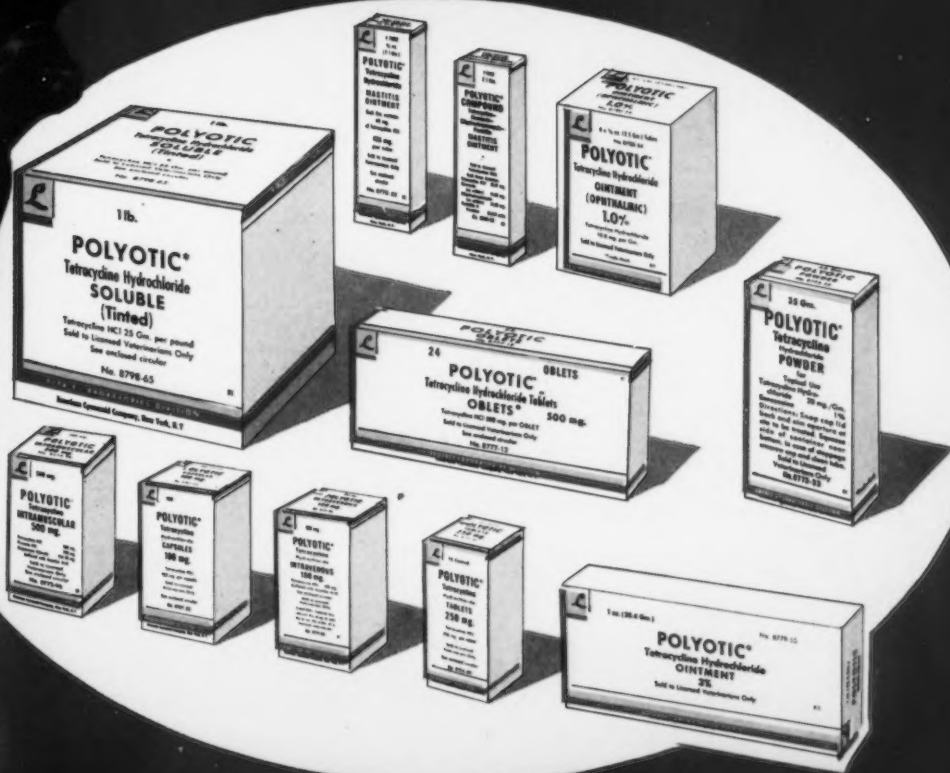
New York

# Tetracycline

Here is the newest of the broad-spectrum antibiotics, clinically proved and ready for intravenous, intramuscular, intrathecal, intravaginal, intramammary, conjunctival, aural and topical use.

No other antibiotic is available to the profession only in such a wide variety of dosage forms. No matter what route of administration, there is a POLYOTIC designed for proper professional application and for dispersing. Available to Licensed Veterinarians Only.

\*Trade-Mark



# broader activity . . .

against pinkeye and mixed  
bacterial infections



Highly active against gram negative and gram positive organisms even in the presence of exudates. KERA-SPRAY, in a convenient, easy-to-use plastic insufflator, is indicated as a treatment for pinkeye, vaginitis, infected ears, following castration and dehorning or for topical application to wounds.

Each 14-Gm. insufflator contains:

Neomycin Sulfate, 0.25 %  
Phenylmercuric Nitrate, 0.005 %  
Sulfanilamide, 89.25 %  
Sulfisoxazole, 10.0 %  
Tetracaine Hydrochloride, 0.5 %

## Keraspray

in 14-Gm. insufflator

massengill

VETERINARY DIVISION BRISTOL, TENNESSEE

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# First Team...

An American considers a substitute as one not capable of making the first team.

In the case of canine distemper control—*Lockhart's Anti-Canine Distemper and Infectious Hepatitis Antiserum* is the first team.

There are no close substitutes for this time-proven product.

Efficiency .... Never questioned

Tri-Anti .... The Virus of Carre  
Infectious canine hepatitis  
Secondary bacterial invaders

Quality .... Never equalled



*Produced for Veterinarians—By Veterinarians*



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**ASHE LOCKHART, INC. • 800 WOODSWETHER ROAD, KANSAS CITY 5, MO**

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*"Producers of Better Biologicals for Graduate Veterinarians"*

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# Vetrobon

## A FOOD...NOT A DRUG

An Important Ingredient in Medications  
designed to Control Scours and Enteritis

- Many of the medications now offered to combat scours and enteritis in large and small animals present Vetrobon, either by itself or in combination with antibiotics and other suitable agents.
  - Vetrobon is a specially prepared carob flour rich in natural lignin, hemicellulose, and pectin, providing 50% carbohydrate and 3½% protein. Thus it feeds while it controls the disease.
  - In the intestinal tract it forms a soft bland mass which removes undigested food and dangerous toxins before further trouble can develop.
  - Vetrobon-containing medications are available in various forms—bolus, tablet, powder. Look for Vetrobon in the medications you prescribe; it adds distinct advantages.
- Vetrobon is available, with or without antibiotics or other medication, through the H. C. Burns Company of Oakland, Portland, and Los Angeles, under the following trade names:

ENTEROBON—5 gr. Tablets

ENTEROBON—240 gr. and 2.5 Gm. Boluses

ENTEROBON—1, 5, and 50 lb. Containers

PHENOBON GRANULES—1, 5, 25, and 150 lb. drums; Phenothiazine, Vetrobon

STREP-SUL with Vetrobon—50 mg. Dihydrostreptomycin with sulfas; 15 gr. Vetrobon

BU-MYCIN with Vetrobon—.5 Gm. Dihydrostreptomycin; 5 Gm. Vetrobon

*Available through ethical channels only*

**THE NESTLÉ COMPANY, INC.** • Professional Products Division • White Plains, N.Y.

## California Veterinarians...

**ARE YOU PROTECTED**  
**these**  
**6 WAYS**  
**on**  
**Liability Insurance?**

- 1—On and Off Premises Liability (both business and personal)
- 2—Malpractice Liability
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- 4—Products Liability
- 5—Contractual Liability
- 6—Non-Ownership Liability


**A Comprehensive Liability Insurance Policy with wide Coverage...Written at competitive rates...in a domestic company.**

**Write: FOR NORTHERN CALIFORNIA**  
**E. C. SMITH COMPANY**  
1404 Franklin St., Oakland, Calif.  
TEmplebar 6-4346


or

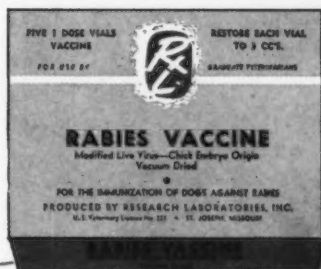
**CHARLES S. TRAVERS, Executive Sec'y, CSVMA**  
3004 16th St., San Francisco, Calif.

**FOR SOUTHERN CALIFORNIA**  
**D. W. MORRIS**  
537½ W. Manchester Blvd.  
Inglewood, Calif. ORegon 8-1482

 Rabies Vaccine is easily administered. Because of the "Reconstitquick" feature, the vaccine immediately is reconstituted and goes into a fine homogenous suspension which passes easily through a 24 gauge needle.

Only a 3 cc. dose of reconstituted vaccine is required.

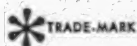
 Rabies Vaccine is scientifically vacuum dried and sealed — your assurance of immunizing potency and safety.



supplied in

1 Vial Vaccine (10-Dose size)  
with diluent

5 Vials Vaccine (5-1 Dose) with  
5 vials of diluent



## RABIES VACCINE

Modified Live Virus — Chick  
Embryo Origin Vacuum Dried

for  
more  
positive  
immunization



available from

**INDEPENDENT  
ETHICAL  
DISTRIBUTORS**

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# Insti-lysin

**effective new  
enzyme • antibiotic • sulfonamide  
treatment for mastitis**

## *An entirely new concept in mastitis therapy!*

Unique formula makes INSTI-LYSIN an important contribution to the field of mastitis therapy. The first truly effective infusion for acute mastitis, INSTI-LYSIN is also valuable in chronic infections.

## *Proteolytic enzyme a distinctive factor in Insti-lysin effectiveness!*

Papain (a primary ingredient in INSTI-LYSIN) digests cellular debris, improves antibiotic activity and promotes rapid reduction of swelling and inflammation.

## *Antibiotic activity stimulated by papain!*

Enhanced by papain, the procaine penicillin g and dihydrostreptomycin content of INSTI-LYSIN maintains high udder levels with broad antibacterial coverage.

## *Maximum antibacterial activity assured!*

Increased phthalylsulfacetamide and sulfathiazole content combines with INSTI-LYSIN's special, diffusible oil base to assure maximum antibacterial activity.

## *formula:*

Papain . . . . . 50 mg.  
Procaine Penicillin g  
. . . 500,000 units  
Dihydrostreptomycin  
. . . 100 mg.  
Phthalylsulfacetamide  
. . . 500 mg.  
Sulfathiazole  
. . . 500 mg.  
(in special diffusible base)



Jensen-Salsbery Laboratories, Inc. Kansas City, Missouri

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